This is a digital copy of a book that was preserved for generations on library shelves before it was carefully scanned by Google as part of a project to make the world's books discoverable online.

It has survived long enough for the copyright to expire and the book to enter the public domain. A public domain book is one that was never subject to copyright or whose legal copyright term has expired. Whether a book is in the public domain may vary country to country. Public domain books are our gateways to the past, representing a wealth of history, culture and knowledge that's often difficult to discover.

Marks, notations and other marginalia present in the original volume will appear in this file - a reminder of this book's long journey from the publisher to a library and finally to you.

Usage guidelines

Google is proud to partner with libraries to digitize public domain materials and make them widely accessible. Public domain books belong to the public and we are merely their custodians. Nevertheless, this work is expensive, so in order to keep providing this resource, we have taken steps to prevent abuse by commercial parties, including placing technical restrictions on automated querying.

We also ask that you:

+ *Make non-commercial use of the files* We designed Google Book Search for use by individuals, and we request that you use these files for personal, non-commercial purposes.
+ *Refrain from automated querying* Do not send automated queries of any sort to Google's system: If you are conducting research on machine translation, optical character recognition or other areas where access to a large amount of text is helpful, please contact us. We encourage the use of public domain materials for these purposes and may be able to help.
+ *Maintain attribution* The Google "watermark" you see on each file is essential for informing people about this project and helping them find additional materials through Google Book Search. Please do not remove it.
+ *Keep it legal* Whatever your use, remember that you are responsible for ensuring that what you are doing is legal. Do not assume that just because we believe a book is in the public domain for users in the United States, that the work is also in the public domain for users in other countries. Whether a book is still in copyright varies from country to country, and we can't offer guidance on whether any specific use of any specific book is allowed. Please do not assume that a book's appearance in Google Book Search means it can be used in any manner anywhere in the world. Copyright infringement liability can be quite severe.

About Google Book Search

Google's mission is to organize the world's information and to make it universally accessible and useful. Google Book Search helps readers discover the world's books while helping authors and publishers reach new audiences. You can search through the full text of this book on the web at `http://books.google.com/`

THE AMERICANA

Library
of the
University of Wisconsin

UNIVERSITY OF WISCONSIN LIBRARY

THE ENCYCLOPEDIA AMERICANA

IN THIRTY VOLUMES

1920
THE ENCYCLOPEDIA AMERICANA
CORPORATION
NEW YORK CHICAGO

COPYRIGHT, 1920

BY

THE ENCYCLOPEDIA AMERICANA CORPORATION

COMPOSITION, ELECTROTYPING, PRESSWORK, BINDING

BY

J. B. LYON COMPANY, ALBANY, NEW YORK

237638
OCT -6 1920
AE
+.AM34
.2
30

CLASSIFIED INDEX

VOLUME XXX

CLASSIFIED INDEX

VOLUME XXX

INTRODUCTION

AN encyclopedia such as the new AMERICANA, containing within its covers treatments on all departments of human knowledge in a great number of articles arranged in alphabetical order, does not require the usual alphabetical index to render its information easily accessible to the general reader in search of a particular topic in which for the moment he is interested. But for the student, interested in a special department or branch of knowledge, there arises the necessity of bringing together in convenient form all the articles in which that subject is treated. This necessity of grouping all articles dealing with a particular science or subject forms the *raison d'être* of the following CLASSIFIED INDEX to the ENCYCLOPEDIA AMERICANA.

The classification of the great mass of material in the pages of the new AMERICANA is, after the manner of most classifications, arbitrary. It has been deemed best to group all topics under as few general headings as possible and these have been simplified by using the terms which first occur to the reader, — for example, Fossils instead of Palæontology; Insects instead of Entomology; Language instead of Philology, etc. To every section is subjoined a list of biographies of men and women who have achieved distinction in that particular field and whose biographies throw much light on phases of the subject not included in the formal treatment.

The aim has been to group the material according to the most natural and obvious divisions of human knowledge, such as, Aeronautics, Education, History, Religion, etc. These major groups number over four score and are subdivided into their natural sections. Thus in the section on Fine Arts will be found Sculpture and her sister arts. Some subdivisions, however, because of their importance have been placed under their own headings although properly belonging under the ægis of a larger group. Thus Music and Painting have been made into major divisions although properly belonging in the domain of Fine Arts.

This CLASSIFIED INDEX, however, by no means exhausts the articles in the new AMERICANA — it seeks merely to bring together all articles necessary to the complete study and understanding of a given science or field of endeavor.

Because of the importance of industry and manufactures in the life of modern peoples it has seemed well to bring together all topics relating thereto under titles or headings which occur readily to the reader. Consequently there are sections on Commerce and Industry; Foundry Practice, Machinery and Machine Work; Iron and Steel, and on many of the products of industry, apart from the purely academic and scientific grouping of these subjects, under such headings as Economic Geology, Metallurgy, etc.

Practically all topographical articles have been omitted from the section on Geography, since these are to be found in their places throughout the several volumes. They have been included only when the historical information contained therein has been considered an essential complement to the history of the country, people, or region in question.

Passing allusions to subjects which receive a fuller treatment elsewhere have been excluded. On the other hand, a cursory examination of the entries under kindred sciences may, and does, show a certain measure of duplication. For this no apology is offered; nor in our opinion is any apology needed in view of the great general aim of placing easily and quickly before the reader all topics essential to the proper understanding of a given science and in their proper relation to that science. Economy of effort for the reader, therefore, has been the guiding principle throughout even though it involved some duplication.

The recent World War brought about tremendous changes in every department of human activity, economic, political and social, and the end is not yet. It was thought well, therefore, for the benefit of students of political science and of present-day international problems to devote a special section to the great conflict, bringing together all the topics scattered throughout the work dealing with every phase of the catastrophe.

No complete and systematic subject index to a great general work of reference has been attempted hitherto on so large a scale as this CLASSIFIED INDEX to THE AMERICANA. Precedents were lacking; all previous efforts in this direction being inchoate or fragmentary, furnishing mainly a syllabus for study or reading courses, without giving volume and page references to the topic in question.

The editors are confident that this CLASSIFIED INDEX will prove a valued aid to users of the ENCYCLOPEDIA AMERICANA in enabling them to systematize this great practical repository of the world's knowledge, making its information on every branch most accessible and setting every subject in its proper relation.

The following pages contain an alphabetical key to the INDEX, showing under an extended classification where the entries to any science, or subdivision of science, may be found. For example, Birds, Fishes, Mammals, etc., are grouped under the major heading of Zoology. A reader desiring information on the first-named will find in the key under Birds a reference to the page of the INDEX on which the list of these vertebrates begins.

The key is followed by pages giving the general arrangement of major headings with their subdivisions in the order in which they appear in the INDEX.

ALPHABETICAL KEY TO CLASSIFIED INDEX

A — PAGE

Abrasives — see under Foundry Practice, Machinery and Machine Work 173
Accident Insurance — see under Insurance. 277
Accounting 23
Advertising — see under Commerce and Industry 77
Aeronautics 1
Aeronauts — see Aeronautics, subsection Biographies 2
Aeroplanes — see Aeronautics, subsection Heavier that Air 1
Africa, History of — see under History, subsection Continental Histories..... 229
Agricultural Machinery — see under Agriculture 9
Agricultural Schools and Colleges — see under Agriculture 9
Agricultural Societies and Organizations — see under Agriculture 10
Agriculturalists — see Agriculture, subsection Biographies 10
Agriculture 2
Algae — see under Botany..... 35
Algebra — see under Mathematics, Pure... 351
Alloys — see under Foundry Practice, Machinery and Machine Work..... 174
American Authors — see under Language and Literature, United States, Biographies 293
American Drama — see Language and Literature 300
American Literature — see Language and Literature 292
Amphibia — see under Zoology, sub-section Vertebrates 589
Amusements 11
Anatomy— see under Medicine and Surgery 367
Animal Anatomy and Physiology — see under Zoology 572
Animal Diseases and Pests — see Agriculture, subsection Stock Raising..... 8
Animals, Domestic 94
Animals, Farm — see Agriculture, subsection Stock Raising 8
Animals — Feeds and Forage for — see under Agriculture, subsection Stock Raising 8
Animals, Fossil — see under Fossils..... 169
Animals, Fur-bearing 181
Animals, Wild — see under Zoology, subsection Vertebrates, General..... 582
Anthropologists — see Ethnology and Anthropology, Biographies 152
Anthropology 147
Apocrypha, New Testament — see under Religion, Bible, Apocrypha 484
Apocrypha, Old Testament — see under Religion, Bible, Apocrypha..... 484
Applied Mathematics 356
Aqueducts — see under Engineering, subsection Civil Engineering..... 126
Arboriculture — see under Horticulture.... 272
Archæology — see under History..... 222
Architects — see Architecture, Biographies. 16
Architecture 13
Architecture, Landscape — see under Horticulture 276
Arithmetic — see under Mathematics, Pure 352
Armies of Various Countries — see under Military Science and History..... 388
Army Administration — see under Military Science and History 390
Army Insignias — see under Military Science and History 389
Army Organization — see under Military Science and History 390
Art of Various Countries — see under Fine Arts 153
Artists — see under Fine Arts, Biographies. 154
Asia, history of — see under History, subsection Continental Histories..... 228
Asia Minor, history of — see under History, subsection Continental Histories..... 229
Astronomers — see Astronomy, Biographies 21
Astronomical Instruments — see Astronomy 21
Astronomy 18
Auditing 23
Australian Authors — see under Language and Literature, subsection Australia, Biographies 313
Australian Literature — see Language and Literature 313
Austria-Hungary, History of — see under History 243
Authors, American — see under Language and Literature, United States, Biographies 293
Authors, Classic — see Language and Literature 289
Authors, English — see under Language and Literature, England, Biographies..... 304
Authors, Irish — see under Language and Literature, subsection Ireland, Biographies 311
Automobile Inventors — see under Automobiles and Self-Propelled Vehicles..... 25
Automobiles 24

B

Bacteriology — see under Medicine and Surgery 371
Balloons — see Aeronautics, subsection Lighter Than Air..... 1
Bankers — see Banking and Finance, Biographies 29
Banking 25
Baseball — see under Amusements, Games and Sports 11
Beef — see under Meat and Meat Products. 358
Beverages — see under Domestic Economy. 96
Bible — see under Religion..... 481
Bibles, Famous — see under Religion, Bible. 481
Biblical Commentators — see under Religion, Bible 484
Biblical Critics — see under Religion, Bible 484
Biblical Personages — see under Religion, Bible 482
Biblical Topography — see under Religion, Bible 483
Biogenesis — see under Biology..... 30

PAGE

Biologists — see Biology, Biographies..... 32
Biology 30
Birds — see under Zoology, subsection Vertebrates 589
Bookbinding — see under Printing and Publishing 474
Bookkeeping — see under Auditing and Accounting 23
Books — see under Printing and Publishing 474
Boots — see under Shoes, Hides and Leather 520
Botanists — see under Botany, Biographies. 62
Botany 33
Botany, Economic — see under Botany.... 57
Brewing 64
Bridges — see under Engineering, subsection Civil Engineering 128
British Empire, Military History..... 400
Builders' tools — see under Building and Construction 67
Building 65
Building terms — see under Building and Construction 67
Butter — see under Dairying and Dairy Products 93

C

Calculus — see under Mathematics, Pure.. 352
Canadian Authors — see under Language and Literature, subsection Canada, Biographies 313
Canadian Literature — see Language and Literature 313
Canals — see under Engineering, subsection Civil Engineering 126
See also under Ships, Shipping, etc.... 516
Carpets — see under Textiles and Textile Manufacture, subsection Finished Products 541
Castles — see under Architecture..... 14
Cathedrals — see under Architecture..... 14
Cattle — see Agriculture, subsection Stock Raising 7
Central America, History of — see under History, subsection Continental Histories 229
Ceramics — see under Pottery and Porcelain 472
Cheese — see under Dairying and Dairy Products 93
Chemicals 68
Chemistry 68
Chemistry, Inorganic — see under Chemistry and Chemicals 74
Chemistry, Organic — see under Chemistry and Chemicals 71
Chemists — see Chemistry and Chemicals, Biographies 75
Chickens — see under Poultry and Poultry Raising 473
Child Study — see under Psychology..... 477
China, History of — see under History.... 248
Christology — see under Religion, Theology 485
Churches — see under Architecture..... 14
Churches, Christian — see under Religion. 486
Churches, Non-Christian — see under Religion 488
Citizenship — see under Government and Political Science 199
Civil Engineering — see under Engineering 126
Classic Authors — see Language and Literature 289
Classic Literature — see Language and Literature 288

PAGE

Cleaning — see under Domestic Economy.. 100
Clothing — see under Domestic Economy... 99
Coal — see under Fuels and Illuminants... 180
Codices, Biblical — see under Religion, Bible 481
Coffee — see Agriculture, subsection Crops, Grasses, Fruits, etc..... 5
Coins — see under Currency and Monetary Systems 89
Colleges — see under Education, subsection Institutions 112
Colleges, Foreign — see under Education, subsection Institutions 116
Colors — see under Painting 443
Commerce 77
Communication 542
Constellations — see under Astronomy.... 20
Construction 65
Continental Histories — see under History.. 228
Cookery — see under Domestic Economy... 99
Copyright — see under Printing and Publishing 474
Cosmetics — see under Domestic Economy. 100
Costumes — see under Sociology..... 529
Covenants — see under Religion, Theology.. 486
Creeds — see under Religion, Theology..... 486
Crimes — see under Law and Legislation.. 344
Crimes, Punishment for — see under Law and Legislation 344
Criminal Law — see under Law and Legislation 344
Crustacea — see under Zoology, subsection Invertebrates 574
Cryptogams — see under Botany..... 35
Crystallography — see under Geology..... 188
Cuba, History of — see under History..... 248
Currency 89
Customs 90
See also under Sociology..... 529
Cutlery 216
Cytology — see under Biology..... 32

D

Dairying 93
Dairy Products 93
Dams — see under Engineering, subsection Civil Engineering 126
Dead, Treatment of — see under Sociology.. 529
Decorations 441
Dentistry — see under Medicine and Surgery 378
Dialects — see Language and Literature... 284
Diamonds — see under Gems, Jewelry and Precious Metals 182
Diplomats — see under Government and Political Science 204
Dirigible — see Aeronautics, subsection Lighter Than Air..... 1
Diseases — see under Medicine, General... 359
Distilling 64
Dogs — see under Domestic Animals..... 94
Domestic Animals 94
Domestic Economy 96
Drama — see under Fine Arts..... 155
Drama, American — see Language and Literature 300
Drama, English — see Language and Literature 309
Drama, French — see Language and Literature 318
Drama, German — see Language and Literature 321

PAGE

Drama, Italian — see Language and Literature 323
Drama, Miscellaneous — see Language and Literature 330
Drama, Russian — see Language and Literature 325
Drama, Spanish — see Language and Literature 324
Dramatists, American — see under Language and Literature, United States, Drama, Biographies 300
Dramatists, English — see under Language and Literature, subsection England, Drama, Biographies 310
Dramatists, French — see Language and Literature, subsection Drama, Biographies 318
Dramatists, German — see under Language and Literature, subsection Germany, Drama, Biographies 321
Dramatists, Italian — see under Language and Literature, subsection Italy, Drama, Biographies 323
Dramatists, Miscellaneous — see under Language and Literature, subsection Other Countries, Biographies 330
Dramatists, Russian — see under Language and Literature, subsection Russia, Drama, Biographies 325
Dramatists, Spanish — see under Language and Literature, subsection Spain, Drama, Biographies 324
Drawing — see under Fine Arts 157
Dyeing 101
Dyes 101

E

Eclipses of Sun and Moon — see under Astronomy 18
Economic Botany — see under Botany 57
Economics 102
Education 107
Education, History of — see under Education 110
Education, Physical — see under Education 112
Educational Administration — see under Education 110
Educational Equipment — see under Education 110
Educational Institutions — see under Education 112
Educational Institutions, Foreign — see under Education 116
Educational Systems of Various Countries and States — see under Education 108
Educators — see under Education, Biographies 119
Egypt, History of — see under History 248
Elections and Election Laws — see under Government and Political Science 194
Electrical Engineering — see under Engineering 130
Electricity — see under Engineering, subsection Electrical Engineering 129
Electricity and Magnetism — see under Physics 467
Elements — see under Chemistry and Chemicals 70
Embryology — see under Biology 30
Engineering 124
Engineering, Civil — see under Engineering 126
Engineering, Electrical — see under Engineering 130

PAGE

Engineering, Hydraulic — see under Engineering 133
Engineering, Marine — see under Engineering 135
Engineering, Mechanical — see under Engineering 135
Engineering, Mining — see under Engineering 143
Engineering, Sanitary — see under Engineering 143
Engineers — see under Engineering, Biographies 144
Engines — see under Engineering, subsection Mechanical Engineering 137
English Authors — see under Language and Literature, England, Biographies 304
English Drama — see Language and Literature 309
English Literature — see Language and Literature 300
Engraving — see under Fine Arts 158
See also under Printing and Publishing 474
Equations — see under Mathematics, Pure. 352
Eschatology — see under Religion, Theology 486
Etching — see under Fine Arts 158
Ethics — see under Philosophy 456
Ethnologists — see Ethnology and Anthropology, Biographies 152
Ethnology 147
Etiquette — see under Sociology 529
European War — see World War 558
Europe, History of — see under History, subsection Continental Histories 228
Exploration 552
Explorers — see Travel and Exploration, Biographies 552
Explosives — see under Chemistry and Chemicals 70

F

Faience — see under Pottery and Porcelain 472
Farm Animals — see Agriculture, subsection Stock Raising 8
Farm Buildings — see under Agriculture .. 9
Farm Crops — see under Agriculture 5
Farm Machinery — see under Agriculture .. 9
Farming — see Agriculture, General 3
Fauna of Various Countries — see under Zoology, General 570
Feeds and Forage — see under Agriculture 8
Fencing — see under Amusements, Games and Sports 11
Ferns — see under Botany 35
Fertilizers — see under Agriculture 4
Fibres — see under Textiles and Textile Manufacture, subsection Raw Materials .. 539
Finance 25
Financiers — see Banking and Finance, Biographies 29
Fine Arts 153
Fire Insurance — see under Insurance 277
Fish — see under Zoology, subsection Vertebrates 598
Fisheries 164
Flags — see under History 226
Flora of Various Countries — see under Botany, subsection Environment of Plants 60
Floriculture — see Horticulture, subsection Flowers 273
Flowers — see under Horticulture 273

PAGE

Foods — see under Domestic Economy..... 97
Foreign Relations — see under Government and Political Science..... 199
Forestry 166
Fossil Animals — see under Fossils..... 169
Fossil Plants — see under Fossils..... 172
Fossils 169
Foundry Practice 173
France, History of — see under History.... 240
French Authors — see under Language and Literature, France, Biographies..... 314
French Drama — see Language and Literature 318
French Literature — see Language and Literature 314
Frogs — see under Zoology, subsection Amphibia 589
Fruit-growing — see Horticulture, subsection Fruits 274
Fruits — see under Agriculture..... 5
See also under Horticulture..... 274
Furs 181
Fungi — see under Botany..... 35
Fur-bearing Animals 181
Furniture — see under Domestic Economy. 99
Furniture (Art) — see under Fine Arts, subsection Minor Arts..... 163
Furs 181
Future State — see under Religion, Theology 486

G

Games 11
Gardening — see Horticulture..... 272
Gas, Illuminating — see under Fuels and Illuminants 181
Gas, Natural — see under Fuels and Illuminants 181
Gems 182
Fungi — see under Botany..... 35
Geography — see under History 225
Geologists — see under Geology, Biographies 190
Geology 183
Geology, Economic — see under Geology... 187
Geometry — see under Mathematics, Pure. 353
German Authors — see under Language and Literature, subsection Germany, Biographies 319
German Drama — see Language and Literature 321
German Literature — see Language and Literature 319
Germany, History of — see under History. 243
Glass and Glass Making..... 192
Goats — see Agriculture, subsection Stock Raising 7
Gold — see under Gems, Jewelry and Precious Metals 183
Golf — see under Amusements, Games and Sports. 11
Government 193
Government, Forms of — see under Government and Political Science..... 201
Governmental Administration — see under Government and Political Science..... 197
Governmental Finances — see under Government and Political Science..... 203
Governmental Revenues — see under Government and Political Science..... 203
Grasses — see under Agriculture..... 5

PAGE

Greece (Ancient), History of — see under History 246
Greek Authors — see under Language and Literature, subsection Classic Biographies 289

H

Hardware 216
Health, Public — see under Medicine and Surgery 373
Heat — see under Physics 466
Heating 217
Heating Apparatus — see under Heating, Lighting and Ventilation..... 217
Hebrews, History of — see under History.. 248
Heraldry — see under History 226
Heredity — see under Biology..... 32
Hides 520
Histology — see under Biology..... 32
Historical Biographies — see under History 249
History 218
History, Continental — see under History.. 228
History, Military 395
History, National — see under History.... 229
History, Naval 433
History, Naval, Great Britain..... 436
History, Naval, Miscellaneous..... 436
History, Naval, United States..... 435
Holidays — see under Sociology 529
Holland, History of — see under History.. 248
Homology — see under Biology..... 32
Horse Racing — see under Amusements, Games and Sports 11
Horses — see Agriculture, subsection Stock Raising 8
Horticulture 272
Hospitals — see under Medicine and Surgery, subsection Medical Institutions.... 366
House Furnishings — see under Domestic Economy, subsection Furniture and Furnishings 99
Hydraulic Engineering — see under Engineering 133
Hygiene — see under Medicine and Surgery 373

I

Illuminants 180
India, History of — see under History.... 249
Industry 77
Insects — see under Zoology, subsection Invertebrates 574
Instruments in Physics — see under Physics, Instruments 468
Insurance 276
Insurance, Accident — see under Insurance. 277
Insurance Control Agencies — see under Insurance 277
Insurance, Fire — see under Insurance..... 277
Insurance, Life — see under Insurance.... 277
Insurance, Marine — see under Insurance.. 277
Insurance Societies and Companies — see under Insurance 277
See also under Societies and Organizations 525
Invertebrates — see under Zoology 572
Irish Literature — see Language and Literature 310
Iron 278

PAGE

Italian Authors — see under Language and Literature, subsection Italy, Biographies. 322
Italian Literature — see Language and Literature 321
Italy, History of — see under History..... 244

J

Japan, History of — see under History.... 245
Jewelry 182
Jews, History of — see under History..... 248
Journalism — see Language and Literature 330
Journalists, American — see under Language and Literature, subsection Journalism, Biographies 330
Journalists, British — see under Language and Literature, subsection Journalism, Biographies 332
Journalists, French — see under Language and Literature, subsection Journalism, Biographies 333
Journalists, German — see under Language and Literature, subsection Journalism, Biographies 333

L

Labor 280
Labor Leaders — see under Labor, Biographies 282
Labor Legislation — see under Labor, General 281
Labor Organizations, Boards, etc.— see under Labor 281
Lace — see under Textiles and Textile Manufacture, subsection Finished Products 541
Landscape Architecture and Gardening — see under Horticulture 276
Language 283
Languages — see Language and Literature. 284
Latin Authors — see under Language and Literature, subsection Classic Biographies 289
Laundrying — see under Domestic Economy 100
Law 333
Law-breaking, Punishment for — see under Law and Legislation 344
Law, Criminal — see under Law and Legislation. subsection Crimes and Punishments 344
Lawyers — see Law and Legislation, Biographies 346
Leather 521
Legislation 333
Legislative Leaders — see under Government and Political Science, Biographies.. 209
Legislators — see Law and Legislation, Biographies 346
Libraries — see under Education..... 118
Lichens — see under Botany..... 35
Life Insurance — see under Insurance..... 277
Light — see under Physics..... 465
Lighthouses — see under Transportation and Communication, subsection Water Transportation 546
Lighting 217
Lighting Apparatus — see under Heating, Lighting and Ventilation..... 217
Linguists — see Language and Literature, Biographies 285
Literature 283
Literature — see Language and Literature 287

PAGE

Literature, American — see Language and Literature 292
Literature, Arabic — see Language and Literature 325
Literature, Australian — see Language and Literature 313
Literature, Canadian — see Language and Literature 313
Literature, Classic — see Language and Literature 288
Literature, English — see Language and Literature 300
Literature, French — see Language and Literature 314
Literature, German — see Language and Literature 319
Literature, Irish — see Language and Literature 310
Literature, Italian — see Language and Literature 321
Literature, Post Classic — see Language and Literature 291
Literature, Russian — see Language and Literature 324
Literature, Scottish — see Language and Literature 312
Literature, Spanish — see Language and Literature 323
Literatures, Miscellaneous — see under Language and Literature, subsection Other Countries 326
Lithography — see under Printing and Publishing 474
Liverworts — see under Botany..... 35
Locomotives — see under Engineering, subsection Mechanical Engineering..... 139
Logarithms — see under Mathematics, Pure 354
Lumbering 166

M

Machinery 173
Machine Work 173
Magnetism — see under Physics..... 467
Majolica — see under Pottery and Porcelain 472
Mammals — see under Zoology, subsection Vertebrates, General 582
Man — see under Religion, Theology..... 486
Manufactures — see under Commerce and Industry 82
Marine Engineering — see under Engineering 135
Marine Insurance — see under Insurance... 277
Materia Medica — see under Medicine and Surgery 374
Mathematicians — see under Mathematics, Biographies 356
Mathematics 351
Mathematics, Applied 356
Mathematics, Pure 352
Measures 555
Measuring Instruments — see under Weights and Measures 556
Meat 358
Meat Industry — see under Meat and Meat Products 358
Meat Products 358
Mechanical Engineering — see under Engineering 135
Medical Education — see under Medicine and Surgery 366

PAGE

Medical Institutions — see under Medicine and Surgery 366
Medical Instruments — see under Medicine and Surgery 378
Medical Schools — see under Medicine and Surgery, subsection Medical Institutions. 366
Medical Sects — see under Medicine and Surgery 366
Medicine 359
Medicine and the Law — see under Medicine and Surgery 367
Medicine, General 359
Medicine, History of — see under Medicine and Surgery 365
Medicine, Preventive — see under Medicine and Surgery, subsection Public Health, Sanitation and Hygiene..... 373
Metallurgy 384
Metals — see under Metallurgy..... 384
Meteorology 387
Mexico, History of — see under History... 249
Military Biographies 401
Military Education and Training — see under Military Science and History..... 394
Military Equipment — see under Military Science and History 392
Military History, British Empire..... 400
Military History, General 395
Military History, Miscellaneous 401
Military History, United States 396
Military Institutions — see under Military Science and History 395
Military Organizations — see under Military Science and History 395
Military Science and History 388
Military Strategy — see under Military Science and History..... 394
Military Tactics — see under Military Science and History..... 394
Milk — see under Dairying and Dairy Products 93
Milling Machinery — see under Mining and Mineral Resources 416
Mineralogy 411
Mineral Resources..... 415
Minerals — see under Mineralogy..... 411
Mining 415
Mining Engineering — see under Engineering 143
Mining Machinery — see under Mining and Mineral Resources 416
Mining Terms — see under Mining and Mineral Resources 416
Minor Arts — see under Fine Arts..... 162
Molluscs — see under Zoology, subsection Invertebrates 580
Monetary Systems 89
Mosses — see under Botany..... 35
Motor Trucks — see under Automobiles and Self-propelled Vehicles 24
Music 416
Musical Instruments — see under Music... 421
Musicians — see Music, Biographies..... 422
Mythology 427

N

National Histories — see under History... 229
Natural Gas — see under Fuels and Illuminants 181
Natural Scientists — see under Physics, Biographies 470

PAGE

Naval History 433
Naval History, Great Britain..... 436
Naval History, Miscellaneous..... 436
Naval History, United States..... 435
Naval Officers, Great Britain — see under Naval Science and History, Biographies.. 438
Naval Officers, Miscellaneous — see under Military Science and History, Biographies 438
Naval Officers, United States — see under Naval Science and History, Biographies.. 436
Naval Science 433
Newspapers — see under Printing and Publishing 474
New Testament, Books, Subjects — see under Religion, Bible 483
Nicknames — see under Sociology..... 534
North America, History of — see under History, subsection Continental Histories 229
Nursery Articles, etc.— see under Domestic Economy 101
Nursing — see under Medicine and Surgery. 378

O

Occultism — see under Psychology..... 478
Oceanographers — see under Oceanography, Biographies 440
Oceanography 439
Oils 440
Old Testament, Subjects, Books — see under Religion, Bible 483
Ontogeny — see under Biology..... 30
Orders 441
Orders and Decorations..... 441
Organizations 522

P

Painters, American — see under Painting, Biographies 444
Painters, British — see under Painting, Biographies 446
Painters, Flemish — see under Painting, Biographies 451
Painters, French — see under Painting, Biographies 447
Painters, German — see under Painting, Biographies 449
Painters, Italian — see under Painting, Biographies 450
Painters, Japanese — see under Painting, Biographies 452
Painters, Mexican — see under Painting, Biographies 452
Painters, Miscellaneous — see under Painting, Biographies 453
Painters, Spanish — see under Painting, Biographies 452
Painting 443
Paints 454
Paints and Varnishes..... 454
Palæobotany — see under Fossils..... 172
Palæozoology — see under Fossils..... 169
Paper 455
Paper and Paper Making..... 455
Parasitology — see under Medicine and Surgery 371
Party Leaders — see under Government and Political Science, Biographies..... 209
Pastimes — see under Sociology..... 529
Patent Law — see under Law and Legislation 341

PAGE

Pathology — see under Medicine and Surgery ... 372
Penology — see under Sociology ... 532
Pensions — see under Sociology ... 532
Perfumes — see under Domestic Economy, subsection Soaps and Cosmetics ... 100
Personages, Biblical — see under Religion, Bible ... 482
Petroleum ... 440
Petrology — see under Geology ... 189
Phanerogams — see under Botany ... 38
Pharmacology — see under Medicine and Surgery ... 374
Philologists — see Language and Literature, Biographies ... 285
Philology — see under Sociology ... 534
See also under Language and Literature ... 283
Philosophers — see under Philosophy, Biographies ... 459
Philosophy ... 455
Philosophy, Systems of — see under Philosophy ... 458
Photography — see under Fine Arts ... 159
Phrenology — see under Psychology ... 476
Physicians — see Medicine and Surgery, Biographies ... 379
Physics ... 463
Physiology — see under Biology ... 31
See also under Medicine and Surgery. 369
Pigments — see under Painting ... 444
See also under Paints and Varnishes .. 454
Planets — see under Astronomy ... 20
Plant Anatomy and Morphology — see under Botany ... 33
Plant Bacteria — see under Botany ... 35
Plant Ecology — see under Botany ... 60
Plant Geography — see under Botany ... 60
Plant Pathology — see under Botany ... 61
Plant Physiology — see under Botany ... 34
Plants and Plant-breeding — see under Horticulture, General ... 273
Plants, Cryptogamous — see under Botany. 35
Plants, Diseases of — see under Botany ... 61
Plants, Environment of — see under Botany 60
Plants, Fossil — see under Fossils ... 172
Plants, Organic Processes and Functions in — see under Botany ... 34
Plants, Phanerogamous — see under Botany 38
Plants, Seed-producing — see under Botany 38
Plants, Spore-producing — see under Botany 35
Plants, Structure and Form of — see under Botany ... 33
Plants Useful to Man — see under Botany. 57
Plated Ware — see under Gems, Jewelry and Precious Metals ... 183
Political Parties — see under Government and Political Science ... 202
Political Science ... 193
Political Scientists — see under Government and Political Science, Biographies ... 209
Pomology — see Horticulture, subsection Fruits ... 274
Population — see under Sociology ... 529
Porcelain ... 472
Postal Systems — see under Transportation and Communication ... 543
Post-classic Authors — see under Language and Literature, subsection Post-classic, Biographies ... 292

PAGE

Post-classic Literature — see Language and Literature ... 291
Pottery and Porcelain ... 472
Poultry ... 473
Poultry-raising ... 473
Power — see under Engineering, subsection Mechanical Engineering ... 140
Precious Metals ... 182
Printers — see under Printing and Publishing, Biographies ... 475
Printing and Publishing ... 474
Psychiatrists — see under Psychology, Biographies ... 478
Psychologists — see under Psychology, Biographies ... 478
Psychology ... 476
Psychology, Abnormal — see under Psychology ... 477
Psychology, Individual — see under Psychology ... 477
Psychology in Relation to Education — see under Psychology ... 477
Psychology, Social — see under Psychology. 477
Public Health — see under Medicine and Surgery ... 373
Publishing ... 474

R

Races — see under Ethnology and Anthropology ... 148
Railroads — see under Transportation and Communication ... 543
Railway Construction — see under Engineering, subsection Civil Engineering ... 129
Railway Systems — see under Transportation and Communication, subsection Railroads ... 543
Religion ... 479
Religions — see under Religion ... 486
Religious Leaders, Christian — see under Religion, Biographies ... 504
Religious Writers — see under Religion, Biographies ... 510
Reptiles — see under Zoology, subsection Vertebrates ... 606
Revenues and Finances of Various States and Countries — see under Government and Political Science, subsection Revenues and Finances ... 203
Rice — see Agriculture, subsection Crops, Grasses, Fruits, etc ... 6
Roads and Highways — see under Engineering, subsection Civil Engineering ... 127
Roman Authors — see under Language and Literature, subsection Classic, Biographies 289
Rome, History of — see under History ... 247
Rubber ... 515
Rubber Products ... 515
Rugs — see under Textiles and Textile Manufacture, subsection Finished Products ... 541
Russia, History of — see under History ... 245
Russian Authors — see under Language and Literature, subsection Russia, Biographies 324
Russian Literature — see Language and Literature ... 324

S

Saints — see under Religion ... 499
Salvation — see under Religion, Theology .. 486

PAGE

Sanitary Engineering — see under Engineering ... 143
Sanitation — see under Medicine and Surgery ... 373
Schools — see under Education, subsection Institutions ... 112
Scottish Authors — see under Language and Literature, subsection Scotland, Biographies ... 312
Scottish Literature — see Language and Literature ... 312
Sculpture — see under Fine Arts ... 159
Sects, Christian — see under Religion ... 486
Sects, Non-Christian — see under Religion. 488
Shellfish — see under Zoology, subsection Crustacea ... 574
Sheep — see Agriculture, subsection Stock Raising ... 8
Shipbuilding ... 515
Shipping ... 515
See also under Transportation ... 542
Ships ... 515
Shoes ... 520
Sick Room Requisites — see under Domestic Economy ... 101
Silk — see under Textiles and Textile Manufacture, subsection Finished Products ... 541
Silver — see under Gems, Jewelry and Precious Metals ... 183
Slang — see under Sociology ... 534
Snakes — see under Zoology, subsection Vertebrates ... 606
Soap — see under Domestic Economy ... 100
Social Control — see under Sociology ... 532
Social Evolution — see under Sociology ... 528
Societies and Organizations ... 522
Societies, Artistic — see under Societies and Organizations ... 522
Societies, Benevolent — see under Societies and Organizations ... 523
Societies, Commercial — see under Societies and Organizations ... 524
Societies, Educational — see under Societies and Organizations ... 522
Societies, Fraternal — see under Societies and Organizations ... 523
Societies, Historical — see under Societies and Organizations ... 524
Societies, Industrial — see under Societies and Organizations ... 524
Societies, Labor — see under Societies and Organizations ... 524
See also under Labor, subsection Organizations ... 281
Societies, Literary — see under Societies and Organizations ... 522
Societies, Miscellaneous — see under Societies and Organizations ... 527
Societies, Patriotic — see under Societies and Organizations ... 524
Societies, Philosophical — see under Societies and Organizations ... 525
Societies, Religious — see under Societies and Organizations ... 525
Societies, Scientific — see under Societies and Organizations ... 526
Societies, Technical — see under Societies and Organizations ... 526
Sociologists — see under Sociology, Biographies ... 536

PAGE

Sociology ... 528
Soils — see under Agriculture ... 4
Soteriology — see under Religion, Theology 486
Sound — see under Physics ... 465
South America, History of — see under History, subsection Continental Histories ... 229
Spain, History of — see under History ... 246
Spanish Authors — see under Language and Literature, subsection Spain, Biographies 323
Spanish Literature — see Language and Literature ... 323
Sports ... 11
Sportsmen — see Amusements, Games and Sports, Biographies ... 12
Social Life ... 90
Standard Units — see under Physics ... 467
Stars — see under Astronomy ... 20
Statesmen — see under Government and Political Science, Biographies ... 204
Steam — see under Engineering, subsection Mechanical Engineering ... 141
Steel ... 278
Stock-raising — see under Agriculture ... 7
Stratigraphy — see under Geology ... 190
Street Railways — see under Transportation and Communication, subsection Railroads ... 545
Submarines ... 435
Subways — see under Transportation and Communication, subsection Railroads ... 545
Sugar and Sugar-making ... 539
Sun — see under Astronomy ... 19
Superstitions — see under Mythology ... 432
Surgeons — see Medicine and Surgery, Biographies ... 379
Surgery ... 377
Surgical Instruments — see under Medicine and Surgery ... 378
Swimming — see under Amusements, Games and Sports ... 12
Swine — see Agriculture, subsection Stock Raising ... 8
Switzerland, History of — see under History 249

T

Tapestries — see under Textiles and Textile Manufacture, subsection Finished Products ... 541
Tariff — see under Economics ... 105
Taxation — see under Economics ... 105
Tea — see Agriculture, subsection Crops, Grasses, Fruits, etc ... 7
Telegraphs — see under Transportation and Communication ... 550
Telephones — see under Transportation and Communication ... 550
Textile Manufacture ... 540
Textile Materials, Raw ... 539
Textile Products, Finished ... 541
Textiles ... 539
Theological Writers — see under Religion, Biographies ... 510
Theology — see under Religion ... 485
Theology, Natural — see under Religion, Theology ... 486
Therapeutics — see under Medicine and Surgery ... 374
Thermodynamics — see under Physics ... 466
Time — see under Astronomy ... 19

PAGE

Titles — see under History 226
Tobacco — see Agriculture, subsection Crops, Grasses, Fruits, etc 7
Tools 216
Topography, Biblical — see under Religion, Bible 483
Toxicology — see under Medicine and Surgery 377
Tractors — see under Automobiles and Self-propelled Vehicles 25
Transportation 542
Transportation and Communication of Various States and Countries 542
Transportation, Water — see under Transportation and Communication 546
Trap-shooting — see under Amusements, Games and Sports 12
Travel and Exploration 552
Treaties — see under History 221
Trees (Useful) — see under Forestry and Lumbering 167
Tribes — see under Ethnology and Anthropology 148
Trigonometry — see under Mathematics, Pure 356
Truck Growing — see Horticulture, General 273
Turbines — see under Engineering, subsection Hydraulic Engineering 134
Turkey, History of — see under History 249

U

United Kingdom and Dominions, History of — see under History 236
United States, History of — see under History, subsection National Histories 229
United States Military History 396
Units of Capacity, etc.— see under Physics, subsection Standard Units 467
Universities — see under Education, subsection Institutions 112
Universities, Foreign — see under Education, subsection Institutions 116

V

Valves — see under Foundry Practice, Machinery and Machine Work 179
Varnishes 454
Vases — see under Pottery and Porcelain ... 472

PAGE

Vegetables — see under Horticulture 275
Vehicles, Self-propelled 24
Ventilation 217
Versions, Biblical — see under Religion, Bible 481
Vertebrates — see under Zoology 582
Vessels — see under Transportation and Communication, subsection Water Transportation 546
Veterinary Science — see under Medicine and Surgery 378
Viticulture — see under Horticulture, General 273

W

War, European — see World War 558
War, World 558
Water Power — see under Engineering, subsection Hydraulic Engineering 134
Water Transportation — see under Transportation and Communication 546
Waterways — see under Transportation and Communication, subsection Water Transportation 549
Weighing Instruments — see under Weights and Measures 556
Weights and Measures 555
Wine-making 64
Wireless Telegraph — see under Transportation and Communication, subsection Telephones and Telegraphs 550
Wireless Telephone — see under Transportation and Communication, subsection Telephones and Telegraphs 551
Woolen Goods — see under Textiles and Textile Manufacture, subsection Finished Products 541
World War 558
Worms — see under Zoology, subsection Invertebrates 581

Y

Yachting — see under Amusements, Games and Sports 12

Z

Zoologists — see Zoology, Biographies 608
Zoology 570

TABLE OF CONTENTS

AERONAUTICS
- General
- Heavier than Air
- Lighter than Air
- Biographies

AGRICULTURE
- General
- Soils
- Fertilizers
- Crops, Grasses, Fruits, etc.
- Stock Raising
  - General
  - Cattle, Breeds of
  - Goats
  - Horses
  - Sheep
  - Swine
  - Feeds and Forage
  - Animal Diseases
- Machinery, Buildings and Equipment
- Schools and Colleges
- Organizations and Societies
- Biographies

AMUSEMENTS, GAMES AND SPORTS
- General
- Biographies

ARCHITECTURE
- General
- Biographies

ASTRONOMY
- General
- Planets
- Stars and Constellations
- Instruments
- Biographies

AUDITING AND ACCOUNTING
- General

AUTOMOBILES AND SELF-PROPELLED VEHICLES
- General
- Inventors

BANKING AND FINANCE
- General
- Biographies

BIOLOGY
- General
- Biogenesis and Ontogeny, Reproduction, Growth, Embryology
- Physiology
- Bionomics and Evolution; Phylogeny
- Heredity and Genetics
- Histology and Anatomy, Cytology, Homology
- Biographies

BOTANY
- General
- Structure and Form of Plants (Plant Anatomy and Morphology)
- Organic processes and function in Plants (Plant Physiology)
- Spore-producing (or Cryptogamous plants), Bacteria, Algæ, Fungi, Lichens, Liverworts, Mosses, Ferns and related families
- Seed Producing Plants or Phanerogams,—all Plants not included in Cryptogamous Division
- Plants useful to man (Economic Botany)
- Environment of Plants (Plant Ecology and Plant Geography)
- Diseases of Plants; Plant Pathology
- Biographies

BREWING, DISTILLING AND WINE-MAKING
- General

BUILDING AND CONSTRUCTION
- General
- Building Materials
- Building Terms
- Builders' Tools

CHEMISTRY AND CHEMICALS
- General
- Explosives
- Elements
- Organic
- Inorganic
- Biographies

COMMERCE AND INDUSTRY
- General
- Biographies

COTTON AND COTTON PRODUCTS
- General

CURRENCY AND MONETARY SYSTEMS
- General

CUSTOMS AND SOCIAL LIFE
- General

DAIRYING AND DAIRY PRODUCTS
- General

DOMESTIC ANIMALS
- General
- Animal Diseases and Pests

DOMESTIC ECONOMY
- General
- Beverages
- Foods and Foodstuffs
- Cookery
- Clothing
- Shelter
- Furniture and Furnishings
- Laundry and Cleaning
- Soaps and Cosmetics
- Nursery, Sick Room, etc.
- Biographies

DYES AND DYEING
- General

ECONOMICS
- General
- Biographies

EDUCATION
- General
- Administration
- History
- Equipment
- Physical
- Institutions
- Libraries
- Biographies

ENGINEERING
- General
- Civil Engineering
  - Aqueducts, Canals, Dams, etc.
  - Bridge
  - Railway
- Electrical Engineering
- Hydraulic Engineering
- Marine Engineering
- Mechanical Engineering
- Mining Engineering
- Sanitary Engineering
- Associations
- Biographies

ETHNOLOGY AND ANTHROPOLOGY
- General
- Races and Tribes
  - North and Central America
  - South America
  - Europe
  - Africa
  - Asia
  - Oceania
- Biographies

FINE ARTS
- General
- Biographies
- Drama
  - Subjects
  - Biographies
- Drawing
  - Subjects
  - Biographies
- Engraving and Etching
  - Subjects
  - Biographies
- Photography
  - Subjects
  - Biographies
- Sculpture
  - Subjects
  - Biographies
- Minor Arts
  - General
  - Furniture
  - Biographies

FISHERIES
- General

FORESTRY AND LUMBERING
- General
- Trees
- Biographies

FOSSILS
- Fossil Animals (Palæozoology)
- Fossil Plants (Palæobotany)
- Biographies

FOUNDRY PRACTICE, MACHINERY AND MACHINE WORK
- Mechanics, etc.

FUELS AND ILLUMINANTS
- General

FURS AND FUR-BEARING ANIMALS
- General

GEMS, JEWELRY AND PRECIOUS METALS
- Gems
- Jewelry
- Precious Metals
- Plated Ware

GEOLOGY
- General
- Economic Geology
- Crystallography
- Petrology
- Stratigraphy
- Biographies

GLASS AND GLASS-MAKING
- General

GOVERNMENT AND POLITICAL SCIENCE
- General
- Administration
- Citizenship
- Foreign Relations
- Forms of Government
- Parties
- Revenues and Finances
- Statesmen and Diplomats.
- Party and Legislative Leaders, Political Scientists, etc.

HARDWARE, CUTLERY AND TOOLS
- General

HEATING, LIGHTING AND VENTILATION
- Heating
- Heating Apparatus
- Lighting
- Lighting Apparatus
- Ventilation

HISTORY
- General
- Archæology
- Geography
- Heraldry, Titles, Flags, etc.
- Continental Histories
  - Europe
  - Asia
  - Asia Minor
  - Africa
  - North and Central America
  - South America
- National Histories
  - United States
  - United Kingdom and Dominions
  - France
  - Germany
  - Austria-Hungary
  - Italy
  - Japan
  - Russia
  - Spain
  - Greece (Ancient)
  - Rome
  - China
  - Cuba
  - Egypt
  - Hebrew and Jewish
  - Holland
  - India
  - Mexico
  - Switzerland
  - Turkey
- Biographies

HORTICULTURE
General
Flowers
Fruits
Vegetables
Landscape Architecture and Gardening
Biographies

INSURANCE
General
Accident
Fire
Life
Marine
Societies and Companies
Control Agencies
Biographies

IRON AND STEEL
General
Biographies

LABOR
General
Organizations, Boards, etc.
Biographies

LANGUAGE AND LITERATURE
General
Language
Languages, Dialects, etc.
Biographies
Literature
General
Classic
Subjects
Biographies
Post-Classic
Subjects
Biographies
United States
Subjects
Biographie
Drama
Biographies
England
Subjects
Biographies
Drama
Biographies
Ireland
Subjects
Biographies
Scotland
Subjects
Biographies
Australia
Subjects
Biographies
Canada
Subjects
Biographies
France
Subjects
Biographies
Drama
Biographies
Germany
Subjects
Biographies
Drama
Biographies
Italy
Subjects
Biographies
Drama
Biographies
Spain
Subjects
Biographies
Drama
Biographies
Russia
Subjects
Biographies
Drama
Biographies
Other Countries
Subjects
Biographies
Drama
Biographies
Journalism
Subjects
Biographies

LAW AND LEGISLATION
General
Crimes and Punishments
Biographies

MATHEMATICS
Pure
Applied
Biographies

MEAT AND MEAT PRODUCTS
General

MEDICINE AND SURGERY
General
History of Medicine
Medical Education
Medical Sects
Medical Institutions
Medicine and the Law
Anatomy
Physiology
Bacteriology and Parasitology
Pathology
Public Health, Sanitation and Hygiene
Materia Medica, Pharmacology and Therapeutics
Toxicology
Surgery
Dentistry
Medical Instruments
Nursing
Veterinary Science
Biographies

METALLURGY
General
Biographies

METEOROLOGY
General
Biographies

MILITARY SCIENCE AND HISTORY
General
Army Administration and Organization
Military Equipment
Military Education and Training
Military Strategy and Tactics
Military Institutions and Organizations
Military History
General
United States
British Empire
Other Countries
Biographies

MINERALOGY
General

MINING AND MINERAL RESOURCES
General
Mining and Milling Machinery
Mining Terms

MUSIC
General
Instruments
Biographies

MYTHOLOGY
General

NAVAL SCIENCE AND HISTORY
General
Naval History
United States
Great Britain
Other Countries
Biographies
United States
Great Britain
Other Countries

OCEANOGRAPHY
General
Biographies

OILS AND PETROLEUM
General

ORDERS AND DECORATIONS
Subjects

PAINTING
General
Biographies

PAINTS AND VARNISHES
General

PAPER AND PAPER-MAKING
General

PHILOSOPHY
General
Biographies

PHYSICS
General
Sound
Light
Heat
Electricity and Magnetism
Standard Units
Instruments
Biographies

POTTERY AND PORCELAINS
General

POULTRY AND POULTRY RAISING
General

PRINTING AND PUBLISHING
General
Biographies

PSYCHOLOGY
General
Phrenology
Social and Individual Psychology
Child Study and Psychology in its Relation to Education
Abnormal Psychology
Occultism and Related Topics
Biographies

RELIGION
General
Bible
Bible — General
Codices, Versions, Famous Bibles, etc.
Biblical Personages
Biblical Topography
Old Testament Subjects
Old Testament Books
New Testament Subjects
New Testament Books
Apocrypha Old Testament
Apocrypha New Testament
Biblical Commentators, Critics, etc.
Theology
Theology — General
Christology
Man
Salvation: Soteriology
Future State: Eschatology
Creeds, Covenants, Confessions
Natural Theology
Religions
Sects and Churches, Christian
Sects and Churches, Non-Christian
History, Christian
History, Non-Christian
Literature, Christian
Literature, Non-Christian
Religious Orders, Congregations, etc.
Ecclesiology (Liturgy, Ritual, Vestments, Furniture, etc.)
Church Law, Government and Discipline
Church Dignitaries, Titles, Offices
Saints
Biographies
Churchmen, Religious Leaders, etc.
Writers on Religion, Theology, etc.
Non-Christian Religious Leaders

RUBBER AND RUBBER PRODUCTS
General

SHIPS, SHIPPING AND SHIPBUILDING
General
Biographies

SHOES, HIDES AND LEATHER
Shoes
Leather

SOCIETIES AND ORGANIZATIONS
Artistic, Literary and Educational
Benevolent
Fraternal
Historic and Patriotic
Industrial and Commercial
Insurance
Philosophical
Religious
Scientific — Technical
Miscellaneous

SOCIOLOGY
General
Social Evolution, Examples of
Life of society in general: Customs, Costumes, Treatment of Dead, Population, Holidays, Pastimes, Etiquette, etc.
Social Control
Economic Sociology (Statistics)
Philology, Slang and Nicknames
Biographies

SUGAR AND SUGAR-MAKING
- General

TEXTILES AND TEXTILE MANUFACTURE
- Raw Materials
- Manufacture
- Finished Products

TRANSPORTATION AND COMMUNICATION
- General
- Postal Systems
- Railways
- Water Transportation
  - Vessels, Lighthouses, etc.
  - Waterways
- Telegraphs and Telephones
- Biographies

TRAVEL AND EXPLORATION
- General
- Biographies

WEIGHTS AND MEASURES
- General
- Instruments

WORLD WAR
- General
- Biographies

ZOOLOGY
- General
- Animal Anatomy and Physiology
- Invertebrates
  - General
  - Crustacea
  - Insects
  - Molluscs
  - Worms
- Vertebrates
  - General
  - Amphibia
  - Birds
  - Fish
  - Reptiles
- Biographies

For page references to the above Sections and Subsections, see Alphabetical Key to Classified Index.

CLASSIFIED INDEX

AERONAUTICS

General	Vol.	Page
Aces, American	28	457
English	28	459
French	28	458
German	28	459
Aerial navigation, legal aspect of	1	179
Aerial operations in European War	28	451
Aero Club of America	1	179
Aerofoil	1	180
Aeronautic charts	1	181
service, French	11	729
Aeronautical laboratories	16	620
nomenclature	1	180
Aeronautics, history of	1	182
military application of	19	86
Aeroplane altitude records	1	192
Aeoplane distance and speed records	1	192
Aileron	1	180
Aircraft board	28	455
Air service, statistics	28	456
Air-speed metre	1	180
Air squadrons	28	456
Altimetre	1	180
American aces	28	457
American air casualties in World War	28	457
American air force	28	452
Atlantic non-stop flight	27	2
Aviation records	25	436
section; U. S. signal corps	27	551
Aviation sickness	2	678
Bank	1	180
Barograph	1	180
Cambre	1	180
Capacity	1	180
Centre	1	180
Chateau-Thierry aerial operations	28	457
Chord	1	180
Controls	1	180
Drag	1	180
Drift	1	180
Elevator	1	180
English aces	28	459
Flight path	1	180
Fins	1	180
First cross-channel flight	19	59
Flying corps, casualties	27	553
French aces	28	458
air casualties in the World War	28	457

General — cont'd	Vol.	Page
Gap	1	180
German aces	28	459
Hat-in-the-Ring squadron	28	452
Inclinometre	1	180
Kite	16	465
Lafayette escadrille	28	452
Lateral balance	1	190
Lift	1	180
Lubricants	17	713
Marey-Monge principle	9	145
Marten Hale aeroplane bomb	19	60
Meuse-Argonne aerial operations	28	457
Military aeronautics	19	59
Naval aeronautics	19	787
NC-4 construction	27	2
N-Square law	19	98
Nose dive	1	180
Pitot tube	1	181
Pylon	1	181
Parachute	21	274
Race of propeller	1	181
Richtofen's flying circus	28	452
Royal air force	23	734
flying corps	23	735
R-34, construction	27	3
flight	27	2
Rudder	1	181
Saint Mihiel aerial operations	28	457
Skidding	1	181
Skids	1	181
Slip	1	181
Spread	1	181
Stability	1	181
Statoscope	1	181
Stay	1	181
Street	1	181
Tail	1	181
fins	1	181
Thrust deduction	1	181
Trans-Atlantic flight	27	1
Truss	1	181
United States Flying Corps	27	551
casualties	27	553
Uses for aircraft	19	59
Warp	1	181
Wing loading	1	181
rib	1	181
spar	1	181
Wings	1	181
Yaw	1	181

Heavier than air	Vol.	Page
Aeroplane	1	180
	1	185
	1	187
	15	285
	19	61
engines	1	192
Aeroplane, types	1	191
Aerostats	1	182
Airplane, body of	1	180
Biplane	1	180
	1	191
Curtiss 160 H. P. aeromotor	1	198
Engine, right or left hand	1	180
Flying machine	11	408
Flying boat	1	191
Helicopter	1	180
High-speed fighting aeroplane	19	787
Hydroaeroplane	1	191
Hydro-aeroplanes	19	787
Liberty engine	28	456
Loening monoplane	28	456
Loezer circus	28	452
Monoplane	1	180
	1	191
Naval aeroplanes	19	787
Ornithopter	1	180
Slow-speed spotting machine	19	787
Torpedo carrying aeroplane	19	787
Triplane	1	181
	1	191

Lighter than air	Vol.	Page
Air-ship	15	285
	19	788
Ballon d'Essai	3	107
Ballonet	1	180
Balloon	1	180
	3	107
Balloons in war	28	456
"Blimp"	28	454
Captive balloon	19	60
Dirigible	1	180
	9	145
military	19	60
non-rigid	1	180
rigid	1	180
semi-rigid	1	180
speed	9	146
stability	9	145
types	9	148
Free balloon	19	60
Gas balloon	15	281

Lighter than air—cont'd	Vol.	Page
Kite balloon	1	183
Military dirigibles	19	60
Power balloons	1	183
Zeppelin type	9	147
	19	60

Biographies

	Vol.	Page
Ader, Clement	1	186
Alcock, John	27	2
Andree, Salomon Auguste	1	672
Archimedes	1	182
Bellinger, Lieut.-Commander, P. N. L.	27	1
Balsan, M.	1	183
Bergson	1	183
Blanchard, François	4	59
Brotherton, Lieutenant	28	453
Brown, Lieut. Arthur	27	2
Campbell, Douglas	28	452
Chanute, Octave	1	185
Charles, Jacques Alexandre César	1	182
	6	325
Cooke, Maj. G. G. H.	27	3
Coolidge, Hamilton	28	452
Coxwell, H. T.	2	509
Curtiss, Glenn Hammond	8	318
Dædalus	1	182
Delagrange, Léon	8	606
De Lana, Francesco	1	182
De la Vaulx	1	183
De Rozier	1	182
Durrant, Lieut. R. D.	27	3
Farman, Henri	11	37
Fonvielle, Wilfred de	11	428
Giffard, Henri	1	183
	1	184
Glaisher, J.	2	509

Biographies — cont'd	Vol.	Page
Goddard	1	183
Green, Charles	1	182
Greenland, Capt. G. S.	27	2
Grieve, McKenzie	27	2
Gusmao, Bartholemeu Lourenço de	13	576
Guynemer, Georges	28	453
Harris, Lieut. Guy	27	3
Hawker, Harry (Capt.)	27	2
Hawley, Alan R.	1	183
Icarus	1	182
Jeffries, Dr.	1	182
King, Samuel Archer	16	433
La Fontaine	19	59
Lansdowne, Lieut.-Commander Z.	27	3
Langley, Samuel Pierpont	1	182
	1	186
	16	721
La Vaulx, Henry	16	585
Lilienthal, Otto	1	185
	17	436
Lowe, Thaddeus, S. C.	17	699
Luck, H. F.	27	2
Lufbery, Maj. Raoul	28	452
Luke, Frank	27	554
	28	452
Maitland, E. M.	27	2
Maxim, Sir Hiram Stevens	1	186
Mayes, W. O. W. R.	27	3
Meerwin, Karl Friedrich	1	182
Meissner, Lieut. James	28	453
Montgolfier, Jacques Etienne	1	182
	19	407
Montgolfier, Joseph Michel	1	182
	19	407

Biographies — cont'd	Vol.	Page
Pegoud, Adolphe	21	472
Phillips, George R.	27	553
Post, Augustus	1	183
Preston, L. Glen A.	27	554
Read, Commander A. C.	27	1
Renard, Charles	1	184
Rickenbacker, Edward V.	27	554
	28	452
	28	453
Roosevelt, Quentin	27	553
	28	452
Rumpelmayer, Herr	1	183
Saint Fond, Faugus de	1	182
Santos-Dumont, Alberto	1	184
	24	288
Scott, G. H.	27	2
Tissandier, Gaston	19	59
	26	645
Tournachon, Felix	26	720
Towers, Commander J. H.	27	1
Veranzio, Fauste	1	182
Warneford, Lieut. R. A. J.	28	453
Wellman, Walter	29	184
White, Lieut. Wilbur	28	453
Wood, Henry A(lexander) Wise	29	472
Woodhouse, Henry	1	185
Wright Bros.	1	185
	1	186
Wright, Orville	29	570
Wright, Wilbur	29	571
Zambeserri, Count	1	182
Zeppellin, Ferdinand, Count von	1	182
	1	185
	29	703

AGRICULTURE

General

	Vol.	Page
Acid fruit region, Italy	15	541
Acts—of trade, British	1	112
Adams Act of 1906	1	249
Adventure, bills of	1	258
Afghanistan, agriculture in	1	207
Agricultural chemistry	1	243
districts, Great Britain	13	268
education, Japanese	15	719
extension work, funds available for	9	595
Gazette of Canada	5	432
industries, French	11	709
legislation, United States	1	250
production, Canadian, value of	5	431
production and distribution in the United States	1	254
products, French	11	710

General — cont'd	Vol.	Page
Agriculture	14	288
	18	746
	19	243
	19	467
	23	72
	26	116
British, of the 18th century	13	264
British, since the 18th century	13	266
in Italy	15	541
in United States	1	257
United States Department of	1	264
Alabama, agriculture in	1	300
Alaska, agriculture in	1	315
Angoumois grain-moth	13	112
Appropriation Act of 1908	1	251
Argentina, agriculture in	2	210
Arizona, agriculture in	2	252

General — cont'd	Vol.	Page
Arkansas, agricultural products	2	257
Australia, agriculture in	2	600
Bee-culture	14	355
Bee-keeping	3	418
	14	353
Belgium, agriculture in	3	457
Bengal India, agriculture in	3	511
Biological survey, United States	26	102
Black belt, Alabama	4	32
Bolivia, agriculture in	4	186
Bordeaux mixture	12	173
Brazil, agriculture in	1	253
	4	433
maté	4	434
British Columbia, agriculture in	4	555
Broadcasting	4	568
Brush	15	99

General — cont'd	Vol.	Page
Bureau of Animal Industry, United States..	1	265
Bureau of Biological Survey	1	266
Bureau of Chemistry, United States	1	265
Crop Estimates	1	265
Entomology	1	266
Plant Industry	1	265
Soils	1	265
Budding	4	676
Cadelle	13	112
Calandra granaria	13	112
California, agriculture in	5	202
Canada, granger movement	5	473
Canadian agriculture	1	253
	5	427
Cash tenancy	11	30
Cathartus advena	13	112
gemellatus	13	112
oryza	13	112
Census of production (1913), Great Britain..	13	267
Chestnut region, Italy..	15	541
Chile, agricultural and pastoral industries	6	504
China, agriculture in	6	519
Choosing a farm	11	34
Clandestine moth (Noctua clandestina)	7	704
Clothes-moth	13	112
Colombia, agriculture in	7	280
Commission merchant..	1	256
Connecticut, agriculture in	7	527
Cooperative agricultural extension work	9	595
Corn Belt	11	28
Corn Bounty Act, British	13	265
Corn insect—pests	7	704
laws	7	705
smut	7	706
Costa Rica, agriculture in	8	42
Cowboys	8	133
Crop-rotation	11	28
	14	288
Cuba, agriculture in	1	253
	8	284
Cut-worms	7	704
Dairying. See Dairying and Dairy Products.		
Dairy states	11	28
Delaware, agriculture in	8	609
Denmark, agriculture in	8	680
Department of Agricultural Extension	23	26
Desert Land Act, United States	1	260
Development Fund, British	13	270
Ditch	9	196
Diversified farming	11	27
Division of Accounts and Disbursements, United States	1	266
Division of Publications, United States	1	265
Drilling	9	336
Dry farming	9	356
Africa	9	357
Colorado	9	357
Montana	9	357
Nebraska	20	26
Utah	9	357
Dry-land fields, Japanese	15	716
Dust-brand	9	430

General — cont'd	Vol.	Page
Ear cockle	9	484
Eau celeste	12	174
Ecuador, agriculture in.	9	573
Education, agricultural.	9	592
Electric farming	10	108
vegetable gardening.	10	145
Electroculture of plants.	10	197
Electrotropism	10	218
Elevators	13	110
country, Canada	5	437
Enclosure bills, British.	13	265
Ephestia kühniella	13	112
Experiment Station Act, United States	1	262
Fallow	10	734
Famine years in Great Britain	13	265
Far West, settlement of	1	261
Farm	11	21
and farm problems.	11	26
choosing a	11	34
labor	11	25
lands, United States, reported value of.	28	176
management	11	34
manager plan	11	30
power	11	37
products, United States, value of	27	508
share tenancy	11	30
size of	11	36
tenancy	11	30
Farming	19	254
relation of capital to	11	36
types of	11	35
Fence	11	112
Florida, agriculture in.	11	370
Fly-weevil	13	112
Forest, American, conquest of	1	260
Forest region, Italian	15	541
France, agriculture in..	1	253
	11	699
Frost	12	124
Fructus industriales	13	498
naturales	13	498
Fungicides	12	173
Gelechia cerealella	13	112
Geoponici	12	472
Geoponika	12	472
Georgia, agriculture in.	12	484
German agricultural communities in the United States	1	262
German Southwest Africa, agriculture in.	12	501
Germany, agriculture in.	1	253
	12	596
Grain elevator	13	110
Grain insects	13	112
trade	5	437
Granary-weevil	13	112
Granger cases	13	132
Grangers	13	133
Great Britain, agriculture in	1	253
	13	264
	13	266
Greece, agriculture in..	13	376
Greenland, agriculture in	13	435
Growing crops, legal status of	13	497
Guatemala, agriculture in	13	518
Guiana, agriculture in..	13	529
Hatch Act of 1887	1	249
	1	262
	13	753
Homestead Acts, United States	1	260

General — cont'd	Vol.	Page
Honey	14	352
Honey-bee	14	353
diseases of	14	356
Hungary, agriculture in.	14	502
Iceland, agriculture in..	14	628
Idaho, agriculture in	14	655
Illinois, agriculture in..	14	686
India, agriculture in	15	5
Indiana, agriculture in..	15	33
Industrial fruits	15	85
Insecticide	15	159
Insecticides and fungicides	1	245
Intensive farming	11	28
	15	718
Iowa, agriculture in	15	296
Ireland, agriculture in.	13	270
	15	311
Irish Board of Agriculture	13	270
Irish Co-operative Organization Society	13	270
Italy, agriculture in	15	541
Jamaica, agriculture in.	15	599
Japan, agriculture in..	15	714
Journalism, agricultural	16	220
Kansas, agriculture in..	16	294
Kentucky, agriculture in	16	365
Labor, farm	11	25
Langstroth hive	14	355
Latin America, agriculture in	1	245
Le Clerc's experiment..	1	245
Louisiana, agriculture in	17	680
Luzon, agricultural products of	17	766
Madagascar, agriculture in	18	94
Maine, agriculture in	18	144
Maryland, agriculture in	18	352
Massachusetts, agriculture in	18	408
Maté	18	424
Matting	18	445
Mexico, agriculture in..	1	254
	18	746
Michigan, agriculture in	19	20
Minnesota, agriculture in	19	202
Mississippi, agriculture in	19	243
Missouri, farming in	19	254
Mixed farming	15	715
Montana, agriculture in.	19	386
Morocco, agriculture in.	19	467
Morrill land grant act of 1862	11	39
Mormon settlements	1	262
Narbonne honey	14	353
Nebraska, farming in	20	25
Netherlands, agriculture in	20	89
Nevada, agriculture in..	20	109
Newfoundland, agriculture in	20	269
New Hampshire, agriculture in	20	125
New Jersey, agriculture in	20	138
New Mexico, agriculture in	20	149
New South Wales, agriculture in	20	162
New York, agriculture in	20	190
New Zealand, agriculture in	20	247
North Carolina, agriculture in	20	413

General — cont'd	Vol.	Page
North Dakota, agriculture in	20	421
Norway, agriculture in	20	438
Nova Scotia, agriculture in	20	463
Office of markets and rural organization	1	266
Ohio, agriculture in	20	611
Oklahoma, agriculture in	20	636
Olive region, Italy	15	541
Ontario, agriculture in	20	694
Oregon, agriculture in	20	777
Paddy fields, Japan	15	716
Paraguay, agriculture in	21	279
Pennsylvania, agriculture in	21	521
Persia, agriculture in	21	616
Peru, agriculture in	21	644
Philippine Islands, agriculture in	21	755
Picket fence	11	112
Plant diseases	26	663
Porto Rico, agriculture in	22	401
Portugal, agriculture in	22	582
Post-and-rail fence	11	112
Poultry. See **Poultry and Poultry Raising.**		
Prairies, conquest of	1	260
Prairie provinces, Canadian	5	428
Prince Edward Island, agriculture in	22	582
Prussia, agriculture in	22	717
Punjab, agriculture in	23	20
Public road and rural engineering	1	266
Quebec, agriculture in	23	72
Queensland, agriculture in	23	82
Rainfall	23	186
Rhode Island, agriculture in	23	466
Rice industry, American	23	486
Rice, production in India	23	487
Rice-weevil	13	112
Root-disease ("foot-rot")	20	725
Rothamsted experiments	13	270
Saskatchewan, agriculture in	24	308
Scandinavian agricultural communities in the United States	1	262
Scotland, agriculture in	13	270
	24	431
Seed testing	24	527
Shipping of farm products	11	26
Silkworm, cultivation of	25	8
Silkworm raising	15	715
Silvanus surinamensis	13	112
Smith-Lever Act	1	251
Smut	9	430
Snake fence	11	112
South Carolina, agriculture in	25	290
South Dakota, agriculture in	25	299
Spain, agriculture in	25	326
Stake-and-Rider fence	11	112
State agricultural legislation in the United States	1	252
States Relations Service	1	266
Swarming bees	14	355
Sweden, agriculture in	25	116
Tenebroides mauritanicus	13	112

General — cont'd	Vol.	Page
Tennessee, agriculture in	26	420
Texas, agriculture in	26	461
Texas, irrigation	26	461
Timber Culture Act, United States	1	260
Tinea granella	13	112
Tobacco-insect enemies	26	662
Truck farming	11	28
Turkey, agriculture in	27	181
Ukraine, agriculture in	27	258
United States Reclamation Service	27	560
Utah, agriculture in	27	613
Vegetation	23	20
	24	763
Venezuela, agriculture in	27	731
Vermont, agriculture in	28	20
Victoria (Australia), agriculture in	28	71
Vine growing, Italy	15	541
Virginia, agriculture in	28	118
Virginia fence	28	128
Washington (State), agriculture in	28	782
rainfall in	28	781
Waste lands	29	4
Weather Bureau	1	265
Weeds	29	156
West Virginia, agriculture in	29	211
Wiley's experiment	1	245
Windbreak	29	379
Winnowing	24	528
Wisconsin, agriculture in	29	418
Worm fence	11	112
Wyoming, agriculture in	29	585
Yukon, agriculture in	29	675

Soils

Soils	Vol.	Page
Acidity of the soil	11	151
Æolian soils	25	225
Alkali and drainage	15	397
Alkali soils	25	227
Alluvial soils	25	225
Bacterial life	25	229
Benefits of drainage	9	299
Biological action in the soil	25	229
Capillary water	25	229
Drainage	9	297
	11	25
	14	543
benefits of	9	299
Drains	9	298
covered	9	298
open	9	298
Glacial drift	25	225
Humus	14	497
	25	227
Hygroscopic water	25	229
Hydrostatic water	25	229
Irrigation	14	543
	15	393
	15	542
cost of water	15	395
furrows	15	395
users' rights	15	398
Loam	17	551
Lysimeter	17	787
Meadow, making and care of	18	475
Prairie	22	505
Soil	1	244
	11	25
	25	223
investigation, method of	25	231
Soil preparation for sugar-beets	25	800

Soils — cont'd	Vol.	Page
Soil preparation for sugarcane	25	795
Soil surveys	25	231
	26	101
toxins	25	230
water	25	229
Soils exhaustion of	25	230
improvement of	25	230
leachy	25	230
physical properties of	25	227
reclamation of	25	230
relation of, to heat	25	228
relation of, to water	25	228
sedentary	25	225
texture and structure of	25	228
tobacco	20	661
transpiration	29	42
transported	25	225
Southern rice fields	23	487
Stone drains	9	298
Subirrigation	15	396
Subsoil	25	225
Subsurface packing	9	357
Summer culture	9	356
Surface area of particles of soil	25	228
Tile drains	9	298
Warping	28	706
Wedge drain	9	298

Fertilizers

Fertilizers	Vol.	Page
Alunite	1	458
	11	150
Ammonium salts	11	147
sulphate	11	146
Apatite	11	148
	21	795
Basic slag	3	306
	11	148
Blood, black-dried	11	147
Blood, red-dried	11	147
Bone dust	4	213
phosphate	11	147
tankage	11	148
Boulder phosphate	11	148
Calcium cynanamide	11	146
Carbon and nitrogen	1	246
Carnallite	11	149
Carucate	5	688
Castor pomace	11	147
Catalytic fertilizers	11	151
Chile saltpetre, or cubic nitre	6	510
	17	45
Complete fertilizers	11	145
	11	151
Compost	7	446
	15	100
Coprolites	7	667
	11	148
Crude phosphate rock	11	149
Cyanamid	11	146
Dolomitic limestone	11	151
Double superphosphates	11	149
Fertilizers	1	244
	6	391
	11	144
	22	253
complete	11	145
	11	151
home mixing of	11	151
incomplete	11	145
	11	151
State control of	11	151
statistics of	11	151
Fertilizing for cotton	8	65
Feterita	11	157

Fertilizers — cont'd	Vol.	Page
Fish guano	13	512
Fish manure	11	280
Florida phosphates	11	148
Giant seaweed	11	150
Gossypium phospho	13	75
Green manuring	13	425
Ground fish	11	147
Guano	11	150
	13	512
Gypsum	17	542
Hoof meal	11	147
Incomplete fertilizers	11	145
	11	151
Kainite	11	149
Kelp	5	208
	11	150
Kieserite	11	149
Leather meal	11	147
Lime	11	151
Linseed meal	11	147
Manganese salts	11	151
Manure	1	244
Manuring of land	13	265
Mineral phosphates	11	148
Muriate of potash	11	150
Nitrate industry	11	146
Nitrate of soda	11	145
Nitrates	11	147
Nitrogen, organic carriers of	11	147
Nitrogenous fertilizers	11	145
Pearl ash	21	456
Pebble phosphate	11	148
Peruvian guano	11	145
Phosphate fertilizers	11	147
relative availability of	11	149
Phosphate rock	11	149
slag	11	148
Phosphatic fertilizers	21	795
Phosphoric acid	11	145
acid, reverted	11	149
Phosphorite	11	148
Polyhalite	11	149
Potash fertilizers	11	149
	22	439
production in the United States	11	150
Potassium chloride	11	149
Raw bones	11	148
Red-dried blood	11	147
Schoenite	11	150
Shell sand	24	667
Sodium nitrate	11	146
Soft phosphate	11	148
South Carolina phosphate	11	148
State control of fertilizer sales	11	151
Street sweepings	29	5
Sulphate of potash	11	150
Superphosphate fertilizers	11	148
Sylvine	11	149
Sylvinite	11	150
Tankage	11	147
	26	244
Tennessee phosphate	11	148
Thomas phosphate	11	148
Tobacco fertilizer	26	661
Vegetable marrow	18	319
Wastes, city	29	5
Wood ashes	11	150

Crops, Grasses, Fruits, etc.

	Vol.	Page
African millet	25	265
Alfalfa	1	377
Mexican	11	24
Almond	1	439
	15	397

Crops, Grasses, Fruits, etc.— cont'd	Vol.	Page
Alsike clover	7	134
	21	378
Apple	2	84
Asparagus	2	402
Articoke	2	357
	5	608
Azotine	2	690
Baga	27	205
Banana	8	131
	18	747
	22	186
Barley	3	257
	11	24
	15	715
	22	185
Barnyard grass	13	155
Beach grass	13	158
Bean	3	377
	4	435
	22	182
diseases of	3	378
Bearded mesquite	13	160
Beet	3	431
Beet-sugar crops of the world	25	804
Bergamot orange	20	725
Bermuda grass	3	566
	13	155
Blue grama	13	158
Blue grass	4	125
	13	155
Bluejoint grass	13	158
Blue stem	13	158
Boone county corn	7	702
Bordeau mixture	22	196
	22	253
Brome grass	13	156
Broome grass	22	185
Broom corn	13	539
	25	265
Broom-corn millets	13	155
	13	159
Brussels sprouts	4	644
Buckwheat	4	670
Buffalo grass	4	694
	13	154
	13	158
Bunch grass	13	158
Calamondin orange	20	725
Cabbage	5	115
	22	181
Cacao	22	180
Canadian blue grass	13	156
Canary grass	13	159
Cane, sugar	25	794
	25	795
Cantaloupes	5	529
	18	607
Caraway	9	494
Carpet grass	13	159
	21	378
Carrot	5	674
	22	183
Castor bean	6	16
Castor oil plant	13	84
Cat-tail millet	21	457
Cauliflower	6	130
	22	181
Celery	22	183
Cereals	6	224
Charleston lawn grass	13	159
Cheat grass	13	157
Cherry	2	567
	6	418
Chevalier barley	13	267
Chick pea	6	451
Chicory	6	458
Choke cherry	6	583
Chess grass	13	157
Chicle	18	748

Crops, Grasses, Fruits, etc.— cont'd	Vol.	Page
China grass	4	148
Citron	6	711
Citrus	22	180
Clove	7	133
	22	182
Clover	7	133
Cock's foot	13	155
Cocoa	7	189
Cocoa plum	7	190
Cocoanut	7	190
Coffee	1	157
	3	598
	7	209
	22	188
Brazil	4	433
Colombia	17	63
Costa Rica	17	63
Ecuador	17	64
Guatemala	17	63
Hawaii	14	2
Latin America	17	62
Mexico	17	64
Nicaragua	17	63
Salvador	17	64
Venezuela	17	64
Colorado grass	13	159
Cord grass	13	159
Corn	7	698
	11	24
Corn culture	7	698
Corn, method of cultivation	7	703
Corn, methods of preparing the seed bed	7	703
Corn, root injury during cultivation	7	704
Corn, thickness of planting	7	703
Cotton. See Cotton and Cotton Products.		
Couch-grass	8	91
Cowpea	8	135
Crab grass	13	157
	13	159
Cranberry	8	153
Crop areas	1	255
	1	263
Crop protection	9	357
Crops	1	245
	5	429
	15	398
Cucumber	8	290
	22	183
Currant	8	310
Custard apple	8	335
Date	8	490
plum	21	630
Dill	9	121
Dog parsley	9	229
Dropseed	13	159
Drought-resistant seed	9	357
Drumhead cabbage	13	267
Durra	25	265
Earthnut	9	494
Egyptian millet	21	457
English bluegrass	13	156
English plantain	22	159
English rye grass	13	156
English walnut	28	244
Esparsette	24	120
Farm crops	11	22
Feed crops	11	23
Fibre crops	11	23
Fibres, bast	11	166
vegetable	11	165
tie material	11	166
woody	11	166
Field crops	5	428
Flax	11	24
	22	180

Crops, Grasses, Fruits, etc.— cont'd	Vol.	Page
Fodder	11	410
Fodder grasses	13	157
Food crops	11	23
Forage crops	11	24
Foxtail grasses	13	158
millets	13	155
Fruits, tropical	12	136
Garlic	12	294
Giant rye grass	13	158
Ginger	12	658
	22	186
Golden eagle corn	7	702
Grain	13	109
Grapefruit	13	146
Grasses in the United States	13	153
Green River tobacco	26	661
Greens	13	438
Guinea grass	13	159
Hay	14	14
crops	11	25
Henequen	18	746
Herbs, culinary	14	120
Hop, bitter	14	374
Hop crop of the United States	14	377
Hops	11	24
	14	374
cost of producing	14	376
culture of	14	377
planting of	14	375
Hops, world's production of	14	375
Hordeum	13	158
Horseradish	14	415
Houseleek	14	448
Indian corn	7	698
	18	746
Industrial crops	15	716
Italian rye grass	13	156
Japanese millet	13	155
	13	159
Jerusalem corn	25	265
Job's tears	13	160
Johnson grass	13	156
June grass	4	125
	13	155
Kafir corn	13	157
	16	276
	25	265
Kale	16	282
Kentucky bluegrass	4	125
	13	155
Kermes	16	378
Kid-glove orange	20	725
Kidney bean	16	401
King orange	20	725
Knot grass	13	159
Kohl-rabi	16	508
Kumquat (Kin-kin, or Kin-kits, Fortunella Margarita)	20	725
Leaming corn	7	702
Lemon	17	281
	18	747
Lettuce	17	325
	22	184
Lime	17	441
Lucerne	17	716
Madder	18	96
Maize	7	698
	22	185
Mandarin, or Tangerine orange	20	725
Mangle	27	92
Mango	18	748
Manioc	5	709
	22	183
Marram	13	158
Meadow fescue	13	156
grass	4	125

Crops, Grasses, Fruits, etc.— cont'd	Vol.	Page
Means grass	13	156
Melons	18	607
Millet	13	155
	19	125
Millets, Indian, cultivation of	15	715
Milo maize	13	157
	25	265
Mission grass	13	159
Mummy wheat	19	562
Muskmelon	18	607
	22	183
Musk plant	19	651
Mustard	19	635
	22	181
Native crops, United States	1	259
Nicotiana quadrivalvis	26	658
rustica	26	658
tabacum	26	658
tabacum, varieties	26	659
Nut grass	20	509
Nutmeg	20	510
Nuts	20	521
	25	268
Oats	11	24
	20	533
	22	185
	25	533
Old witch grass	13	159
Olive	20	663
One-sucker tobacco	26	661
Onions and onion culture	2	63
	20	690
Orchard grass	13	155
Ornamental grasses	13	160
Osage orange (Maclura parnifera)	20	725
	21	15
Otaheite orange	20	725
Palm kale	21	210
Pampas grass	13	160
Paris green	21	320
Parsnip	22	183
Pea	21	435
Peach	21	446
Peanut	21	451
Pear	21	452
Pecan	21	461
Pearl millet	13	157
	21	457
Pepper	21	565
Peppermint	21	566
Persimmon	21	630
Pie plant	23	478
Pimento grass	13	159
Pineapple	18	747
	22	99
Plants, relation to man	4	311
Plume grass	13	154
Poncirus trifoliata	20	725
Potato	22	444
Pot-herbs	13	438
Pumpkin	22	800
Quack grass	13	158
Radish	22	181
	23	126
Raisin	23	194
Raisin industry, American	23	194
Raisins of California	23	194
Ramie	23	202
Rape	23	215
Ravenna grass	13	154
	13	160
Redtop	13	155
	21	378
Rhodes grass	23	474
Ribbon grass	13	154

Crops, Grasses, Fruits, etc.— cont'd	Vol.	Page
Rice	22	185
Rice, American storage facilities for	23	487
Rice, cultivation of	15	715
Rice culture in the Carolinas	2	166
Rice fields, Southern	23	487
Rice industry, American	23	486
Rice production in:		
Argentina	17	67
Brazil	17	67
Costa Rica	17	68
Ecuador	17	68
Latin America	17	66
Mexico	17	70
Paraguay	17	68
Peru	17	68
Salvador	17	70
Rice, world's production	23	487
Riley's favorite corn	7	702
Rotation of crops	23	715
Rubber	15	24
	18	746
	23	739
Russian River hops	14	377
Rutabaga	27	205
Rye	22	185
	24	72
grass	21	378
Saazer hops	14	375
Saccaton	13	159
Saccharine Sorghums	13	157
Sainfoin	24	120
Salt grass	13	158
Seaside oats	13	160
Seed cane	25	795
Sheep's fescue	13	158
Side oats grama	13	158
Silver mine corn	7	702
Sleepy grass	13	160
Slender wheat-grass	13	158
Soil-building crops	11	23
Sorghums	13	157
	25	264
Sorghum vulgare	16	276
non-saccharine	13	157
	25	265
Soy beans	25	319
Spalter hops	14	375
Spear grass	4	125
Spearmint	25	366
Special-purpose crops	11	23
Spikenard	26	11
Spinach	25	410
Spinage	25	410
Spring rye	24	499
Sprouting crab grass	13	159
Squarehead wheats	13	267
Squash	25	463
Squirrel-tail grass	13	158
Sudan green	13	156
Sugar	4	434
	18	747
	25	794
beet	1	245
	5	429
	11	24
beet planting	25	800
Sugar beets, cultivation of	25	800
Sugar beets, harvesting of	25	800
soil preparation for	25	800
Sugar cane	25	794
Sugar cane, cultivation of	25	795
Sugar cane, harvesting of	25	796

Crops, Grasses, Fruits, etc.— cont'd	Vol.	Page
Sugar cane, planting of.	25	795
varieties of	25	794
soil preparation for.	25	795
Sugar growing and sugar making	25	794
Sugar, maple, industry.	18	260
Sugar, raw	25	799
Swamp hay	13	158
Sweet corn	7	698
grass	13	159
Swedish turnip	27	205
Switch grass	13	159
Tall fescue	13	156
Tall oat grass	13	157
Tea	26	306
Brazil	4	444
brick	26	307
consumption	26	308
cultivation	26	306
culture in the United States	26	307
green	26	307
history of	26	307
in America	26	309
imports	26	309
infusion	26	308
Paraguay	18	424
plucking	26	306
processing	26	306
production	26	308
varieties of	26	309
Teosinte	13	157
Texas bluegrass	13	159
	21	378
Tickle grass	13	159
Timothy	22	185
grass	13	154
hay	21	378
Tobacco	11	24
	18	749
	26	658
commercial types of	26	660
culture of	26	661
curing	26	662
filler leaf centers	26	660
fertilizer	26	661
Green River tobacco.	6	661
grading	26	662
harvesting	26	662
Indian	15	133
insect enemies	26	662
perique	26	661
plant	26	658
production in Argentina	17	76
Brazil	17	76
Chile	17	77
Colombia	17	77
Costa Rica	17	78
Dominican Republic	17	78
Ecuador	17	79
Guatemala	17	79
Honduras	17	79
Latin America	17	76
Mexico	17	79
	17	80
	18	752
Paraguay	17	77
Peru	17	80
Venezuela	17	80
Virginia	28	118
seedlings	26	661
soils	26	661
white burley	26	660
yellow	26	660
Turnip	22	181
	27	205
Tuscarora rice	13	160
Vanilla	27	863

Crops, Grasses, Fruits, etc.— cont'd	Vol.	Page
Vanilla grass	13	159
plant	27	684
Velvet grass	13	157
Vetch	28	46
Vitality of seed	7	702
Water grass	13	159
Watermelon	18	608
	22	185
Welsh onion or "Cibol"	20	691
Wheat	4	435
	11	24
	13	154
	18	746
	22	185
	29	241
world's crop	29	242
White clover	21	378
White mustard	19	655
White superior corn	7	702
Wild oats	13	158
rice	13	160
Wintergreen	12	341
Winter rye	24	499
Yam	29	610
Yellow dent corn, Reid's	7	702
Yerba maté	7	189
Yucca	22	322
See also **Botany; Horticulture.**		

STOCK RAISING

General

General — cont'd	Vol.	Page
Animal husbandry	11	28
Animals	1	245
domesticated	1	710
Branding	4	412
Brazil, cattle raising in.	4	433
Breeding	4	460
	25	657
Cattle	6	109
diseases of	6	114
feeding of	6	113
insurance statistics.	6	115
ration	17	530
Colombia, cattle raising in	17	57
Colorado, stock raising in	7	318
Crofters	8	220
Crossbreeding	25	677
Denmark, cattle breeding in	8	680
Earmark	9	488
Ecuador, live stock in.	17	58
Farm animals, nutrition of	20	510
Farm live stock	5	429
Florida, live stock in	11	371
French Indo-China, live stock in	12	72
Hungary, live stock in	14	502
Idaho, stock raising in	14	655
Inbreeding	25	657
India, stock raising in	15	5
Iowa, stock raising in	15	297
Ireland, stock raising in	15	311
Italy, stock raising in	15	541
Kansas, stock raising in	16	294
Kentucky, stock raising in	16	366
Latin America cattle	17	54
Live-stock	17	527
Canada	5	430
feeding of	17	527
Great Britain	13	267
industry	11	28
Japan	15	717
Pedigree Act, 1900	5	432

General — cont'd	Vol.	Page
Louisiana, stock raising in	17	681
Maine, stock raising	18	144
Mexico, stock raising in.	18	748
Michigan, stock raising in	19	21
Missouri, stock raising in	19	254
Nebraska, stock raising in	20	25
New South Wales, stock raising in	20	162
New York, stock raising in	20	190
Ohio, stock raising in	20	611
Oklahoma, live stock in.	20	637
Oregon, live stock in	20	777
Pasture land	11	461
Portugal, stock raising in	22	410
Ranching	23	207
Russia, cattle and meat industry in	24	45
Sociedad Rural Argentina	17	55
Soiling	25	232
South Dakota, stock raising in	25	299
Spain, stock raising in	25	326
Stock breeding	25	656
Stock raising	19	254
Mexico	18	748
United States	1	259
Texas, stock raising in.	26	461
Thremmatology	26	504
Venezuela, cattle raising in	27	731
West Virginia, stock raising in	29	211
Wyoming, stock raising in	29	565

Cattle, Breeds of

	Vol.	Page
Aberdeen Angus	6	111
	13	268
	25	685
Ayrshire	6	111
Beef types	6	111
Brown Swiss	6	112
Channel Island	13	269
Dairy types	6	111
Devons	6	112
	9	42
	13	268
	25	658
Dexter	6	112
Dual purpose	6	112
Dutch Belted	6	112
French Canadian	6	112
Galloways	13	270
Guernsey	6	111
Hereford	6	111
	13	286
Highland	14	185
Holstein-Friesian	6	112
Jersey	6	111
Kerry	6	112
Longhorn	13	268
Red polled	6	112
	25	658
Shorthorn	6	111
	13	268
Welsh runts	13	269

Goats

	Vol.	Page
Goat	12	739
Goats, Angora	12	740
Cashmere	12	741
common	12	741
Milch	12	741

Horses

	Vol.	Page
Bronchos	14	387
Cavalry horse of France	14	401
Cayuses	14	387
Cleveland bay	13	269
	14	386
Clydesdale	14	389
Colt	14	386
Conestoga horse	14	389
Farm horses	14	386
Filly	14	386
Foal	14	386
care of	14	390
French Coach	14	386
	14	401
Gelding	14	386
German Coach	14	386
Hackney	14	386
Hambletonian blood	14	388
Horse	14	385
	15	541
Horse, care of	14	389
Horse, care of pregnant mare	14	390
Horse contagious diseases	14	393
Horse, diseases of	14	389
Horses, early importations of	14	387
	14	389
Horse, evolution of	14	396
	14	398
heavy harness	14	403
liver diseases	14	392
military	14	401
natural food of	14	391
overgrown hoof	14	390
parasitic diseases	14	396
riding and driving	14	402
saddle	14	405
shipping fever	14	393
trotting and pacing	14	407
Horses, breeding of	14	406
feeding of	14	392
ration for	17	529
Mule	14	386
Mustang	14	386
Nag	14	386
Percheron	14	402
	21	571
Pony	14	387
	22	353
Indian	14	386
Shetland	14	387
Stallion	14	386
Stud horse	14	386
Thoroughbred	14	410
American	14	387

Sheep

	Vol.	Page
Australian Merinos	24	673
Border Leicester	13	270
Breeding ewes, ration for	17	530
Cheviot	13	270
Hampshire Downs	13	268
Lambs	24	675
Leicester	13	268
Merino breeders	24	673
sheep	24	673
Mutton, sheep	24	673
Ovis aries	24	672
Oxford Downs	13	268
Sheep	15	541
	24	672
Sheep feeding in winter	24	674
habits	24	672
Sheep, gregariousness of	24	672
Sheep, how to determine the age of	24	672
Sheep, long wool breeds	24	674
Sheep — cont'd	Vol.	Page
Sheep, medium wool mutton breeds	24	674
Sheep, shelter	24	674
Shropshire Downs	13	268
Southdown	13	268
Suffolk breed	13	268
Wool-sheep	24	673

Swine

	Vol.	Page
Municipal piggeries	29	5
Pigs, ration for	17	529
Razorback	23	242
Swine	15	542
	26	138
Bacon breeds	26	139
Swine feeding	26	140
general purpose breeds	26	139
handling	26	140
lard type breeds	26	139
management	26	140
terms	26	139
types	26	138
White Yorkshire	13	269

Feeds and Forage

	Vol.	Page
African millet	25	265
Alfalfa	1	377
	11	24
	15	397
meal	1	377
Alsike clover	21	378
Barley	3	257
	11	24
	15	715
Blue-grass	4	125
	13	155
Bran	4	409
	11	382
Buckwheat	4	670
Concentrated foods	11	28
Carbohydrates	1	246
Carrot	5	674
Clover	7	133
Concentrated feeds	20	512
Corn	7	698
	11	24
Corn silage	24	808
Cowpea	8	135
Crops used for silage	24	808
Cotton-seed meal	11	147
Dried grass	14	391
Ensilage	15	101
	24	808
Farm animals, nutrition of	20	510
Fattening grass	17	56
lambs, ration for	17	529
pigs, ration for	17	530
steers, ration for	17	529
Feed crops	11	23
Feeding cows	8	403
value of wet and dry slop	9	182
Feeds, palatability of	17	529
succulent	6	113
suitability of	17	529
Flaxseed	11	339
Fodder	11	410
Forage	11	459
	14	14
crops	11	24
	20	512
Foxtail millets	13	155
Gluten	11	384
	12	730
Hay	14	14
	14	391
Japanese millet	13	155
	13	159
Feeds and Forage—cont'd	Vol.	Page
Kafir corn	13	157
	16	276
	25	265
Kentucky blue-grass	4	125
	13	155
Kiln-dried oats	14	391
Linseed cake	17	465
Maize	14	391
Middlings	11	383
Millet	13	155
	19	125
Molasses	14	392
New hay	14	391
Oats	11	24
	20	533
Oilcake	11	340
Palatability of feeds	17	529
Pasture	21	377
Protein	1	246
	22	676
Rape	23	215
Redtop	13	155
	21	378
Roughage	20	512
Rye	24	72
Rye, feed value	24	72
Shorts	11	383
Silage	20	512
	24	808
Soiling	25	232
Soy beans	25	319
Stall-feeding	11	28
Succulent feeds	6	113
Suitability of feeds	17	529
Timothy hay	21	378
Turnip	27	205
Upland hay	14	391
Vetch	28	46
White clover	21	378

Animal diseases and pests

	Vol.	Page
Abortion, contagious	14	393
Acne, contagious	14	393
Anaemia, progressive pernicious	6	123
Animals, domestic, diseases of	1	708
Animal parasites	6	119
Anthrax	2	19
	14	393
	23	526
Anthrax emphysematous	14	393
Anthrax, preventive inoculation	2	20
Black leg	23	526
	28	48
Black quarter	4	37
Bloat	4	90
Blood, white cell	6	122
Bones, softening of	6	122
Boophilus bovis	23	526
Broken wind	14	54
Cattle, diseases of	6	114
fever	6	122
fever (Southern)	6	118
immunity from disease	6	116
plague	6	123
tick	6	123
Chorea	9	230
Constitutional diseases	6	121
Contagious diseases	6	114
	14	393
Curb	8	305
Deer fly	14	410
Diseases, specific infectious	1	708
Distemper	9	172
	14	393

Animal diseases and pests — cont'd

	Vol.	Page
Distoma	9	186
Dourine	9	283
	14	393
Enzoötic	10	406
Equine influenza	14	398
Farcy	11	18
Fardel bound	11	18
Fever	6	122
Aphthous	23	526
Petechial	14	398
shipping	14	393
Southern	23	526
Spanish	23	526
Texas	23	526
treatment of	6	122
Fleas	6	120
	11	340
Flies, small black	6	120
Foot and mouth disease	6	115
	23	526
Foot-rot	11	455
Founder	11	541
Gad fly	14	410
Gastro-enteritis	14	393
Glanders	12	680
	14	393
Grub in head	24	276
Heaves	14	54
Hog Cholera	28	48
Horse bot-fly	14	410
Horse, diseases of	14	389
fly	14	410
liver diseases	14	392
pox	14	393
Hoven	4	90
Hydrophobia	9	231
	14	582
Immunization	1	709
Infectious diseases	1	708
causes	1	708
duration	1	708
incubation	1	708
lesions	1	708
transmission	1	709
Inflammation	6	122
Influenza	14	398
Intestinal worms	6	121
Itch	15	557
Itch mite	15	557
Laminitis	11	541
Lampers or Lampas	16	683
Leukemia	6	122
Liver flukes	6	120
Loco	17	564
	25	471
Louse	17	691
Lung plague	6	114
Lymphadenoma	6	122
Mal de Caderas	14	393
Maladie du Coit	9	23
Mange	6	120
	9	231
	18	212
Metritis	28	50
Milk fever	28	50
Mites	6	120
	26	608
Mosquitoes	6	120
	19	502
Mouth thrush	14	393
Murrain	19	609
Nagana	14	393
Non-contagious diseases	6	121
Nosema	25	434
Oedema, Malignant	14	393
Opthalmia, infectious	14	393
Paraplegia, infectious	14	398
Parasites, animal	6	119
Parasites, vegetable	6	119

Animal diseases and pests — cont'd

	Vol.	Page
Parasitic diseases	1	709
	14	396
Pink eye	22	101
Pleuro-pneumonia	23	526
Pneumonia	14	393
Poll evil	22	318
Protozoa, parasitic	6	119
Quarter ill	23	526
Rabies	9	231
	14	393
	14	582
Rheumatism	6	122
Rinderpest	6	114
	23	525
Ringbone	23	527
Roaring	23	563
Rot	23	713
Rumen	4	90
Sand crack	24	251
Scab	24	345
Scabies	6	120
	24	345
Sheep-bot	24	676
Shipping fever	14	393
South Africa horse sickness	14	393
Southern cattle fever	6	118
Spavin	25	364
Splint	25	426
Spring halt	25	452
Staggers	25	470
Strangles	14	393
	25	710
String halt	25	452
Stomach-staggers	25	470
Surra	14	393
	26	90
Texas fever tick	6	123
Thrush	26	598
mouth	14	393
Tick, cattle	6	123
fever	6	118
Texas fever	6	123
Ticks	26	608
Toxins (horse)	14	396
Tuberculosis	6	118
	14	393
	23	526
distribution among animals	23	526
Tympanites	4	90
Vesicular exanthema	14	393
White cell blood	6	122
White scours	14	390
Wind-galls	29	379
Worms, intestinal	6	121
round	6	121
stomach	14	396
tape	14	396

See also **Domestic Animals**, and under **Medicine — Veterinary Science.**

Machinery, Buildings and Equipment

	Vol.	Page
Agricultural implements	18	507
implement industry	1	250
Japanese	15	716
machinery	18	61
Agricultural machines and implements	18	507
Automatic grain binding device	15	284
Binding twine	16	267
Barn	3	260
Cast-iron plow	22	251
	22	252
Chilled plow	22	252
Colonial plow	22	251

Machinery, Buildings and Equipment — cont'd

	Vol.	Page
Corn-cutters	5	510
Corn-silking machines	5	510
Cradle	8	148
Cultivators	11	33
Drill	15	161
Farm buildings	11	27
equipment	11	33
machinery	11	32
Farming tools	13	701
Flail	11	328
Grain binder	15	284
automatic	15	284
Grain threshing machine	15	282
Harrow, spring tooth	15	284
Harvester and thresher combined	15	285
Harvester twine	15	284
Internal combustion engine	15	224
Harvesting machines	11	33
Labor-saving devices	1	258
McCormick reaper	15	288
	22	252
Plow	22	251
Plow, ancient	22	251
cast iron	22	251
chilled	22	252
Colonial	22	251
first	22	251
Scotch	1	659
Reapers and binders	23	260
Reaper, self-binding	15	284
	23	261
Reel	23	296
Scotch plow	1	659
Seeders and planters	11	33
Self-binder	23	262
Self-binding reaper	23	261
	11	28
Self-raker for harvesters	15	283
Silo	24	808
	25	9
	24	808
Sulky plow	15	284
Synmotor	26	747
Threshing machine	15	282
Tilling machines	11	32
Traction engine	26	745
Tractor	26	746
caterpillar	26	747
Winnowing machine	29	398
Yoke	29	638

Schools and Colleges

	Vol.	Page
Agricultural colleges	1	246
College of Pennsylvania	1	247
	21	539
Experiment Station	1	248
Alabama Polytechnic Institute	1	307
Clemson Agricultural College	7	87
Colorado Agricultural College	7	323
Cornell University	1	248
	7	711
Education, agricultural	9	592
Experiment stations	9	357
Florida Agricultural College	11	379
Hampton Normal and Agricultural Institute	13	669
Illinois, University of	14	694
Imperial Agricultural College	15	20
Iowa State College of Agricultural and Mechanic Arts	15	302
James Mason laboratory	13	270

Schools and Colleges — cont'd Vol. Page

Kansas State Agricultural College..... 16 303
Kansas State College... 1 247
Land grant colleges.... 9 593
Maine State College of Agriculture and Mechanic Arts 18 149
Maryland Agricultural College 18 370
Massachusetts Agricultural College..... 1 247
18 411
Michigan State Agricultural College..... 1 247
19 31
Mississippi Agricultural and Mechanical College 1 247
19 247
Montana State College of Agriculture and Mechanic Arts..... 19 394
New Mexico College of Agriculture 20 152
North Carolina College of Agriculture and Mechanic Arts..... 20 419
North Dakota Agricultural College..... 20 424
Ohio State University.. 1 248
20 622
Oklahoma Agricultural and Mechanical College 20 641
Ontario Agricultural College, The 20 695
Oregon State Agricultural College..... 20 784
Pennsylvania State College 1 247
21 539
Purdue University..... 23 26
Rothamsted Station..... 1 250
Royal Agricultural College at Cirencester... 13 270
Scheffield Scientific School 1 250
29 607
South Carolina University 27 579
South Dakota Agricultural College..... 25 303
Texas Agricultural and Mechanical College.... 26 466
University of California. 1 248
5 217
of Wisconsin..... 1 248
29 424
Utah, Agricultural College of..... 27 619
Vermont, University of, and State Agricultural College 28 30

Schools and Colleges — cont'd Vol. Page

Virginia Polytechnic Institute 28 129
Wesleyan University, Middletown, Conn.... 1 249
29 197
West Virginia University 29 218

Organizations and Societies

Agrarian insurance associations 15 542
Agricultural Association 1 243
associations 15 542
organization 5 431
organizations 1 246
societies 15 719
Society of Leipzig.. 1 248
syndicates 1 257
Bath and West of England Society..... 1 243
Canadian Seed Growers' Association 5 432
Corn Breeders' Association 7 701
Corn clubs..... 7 698
Farmers' Alliance..... 11 32
11 38
Farmers' Association... 5 473
Farmers' co-operative movement 11 38
Farmers' Institutes..... 11 39
Farmers' National Congress 11 32
11 39
Grange 11 32
Bulletin 5 473
economic enterprises of 5 473
Grangers 13 133
Highland and Agricultural Society of Scotland 1 243
Holstein-Freisian Society of Canada..... 5 432
International Institute of Agriculture..... 15 254
Labor colonies..... 16 592
Lawes Agricultural Trust 1 248
Massachusetts Society for the Promotion of Agriculture 1 243
Patrons of Husbandry.. 11 32
Royal Agricultural Society 1 243
13 270

Biographies

Anderson, James..... 1 659
Atwater, Dr. W. O..... 1 249
Babcock, Stephen Moulton 3 4

Biographies — cont'd Vol. Page

Bakewell, Robert..... 3 62
Barrett, Charles Simon. 3 277
Bourgelat, Claude..... 4 350
Brewer, William Henry 4 475
Carleton, Mark Alfred.. 5 615
Cobb, Nathan Augustus. 7 174
Coburn, Foster Dwight. 7 178
Cole, Asahel N..... 7 241
Columella, Lucius Junius Moderatus..... 7 344
Coulter, John Lee..... 8 95
Crerar, Thomas Alexander 8 180
Crescenzi, Pietro, or Petrus de Crescentiis... 8 181
Crevecœur, Jean Hector Saint Jeande..... 8 189
Dodge, Jacob Richards. 9 220
Earle, Franklin Sumner 9 486
Eyth, Max..... 10 685
Fields, John..... 11 187
Frear, William..... 12 30
Gilbert, J. H..... 13 270
Hatch, William H..... 1 249
Hays, Willet Martin.... 14 22
Jardine, William M.... 15 748
Jenkins, Edward Hopkins 16 13
Landry, Auguste Charles Philippe Robert..... 16 795
Landreth, Burnet.....16 704
Landreth, David..... 16 705
Lawes, J. B..... 13 270
Liebig, Justus von..... 11 145
Loring, George Bailey.. 17 663
Lubin, David..... 17 712
McFarland, John Horace 18 46
Mills, James..... 19 128
Plunkett, Sir Horace... 1 243
22 259
Ruffin, Edmund..... 23 755
Saunders, William..... 24 320
Saussure, Theodore de.. 11 145
Smith, John Bernhardt. 25 123
Stohmann, Frederick Karl Adolf..... 25 666
Swingle, Walter Tennyson 26 141
True, Alfred Charles... 27 108
Tull, Jethro..... 27 136
Voorhees, Edward Burnett 28 185
Wallace, Henry..... 28 236
Watson, Elkanah..... 1 243
29 108
Widtsoe, Dr. John A.. 9 358
Wood, Jethro..... 22 252
Wood, Walter Abbot... 29 475
Young, Arthur..... 13 265

See also **Dairying Domestic Animals; Poultry, etc.**

AMUSEMENTS, GAMES AND SPORTS

General	Vol.	Page
Amateur	1	464
Amateur Athletic Union	2	498
American system of gymnastics	13	589
Angling	1	684
	11	275
	11	359
	11	406
Arms	2	279
breech loading	2	279
Athletes	2	497
Athletic records	2	499
Athletic sports	25	438
Athletics	2	497
college	25	440
Athletism	2	497
Automobile races	25	437
Automobile records	25	442
Axtell	14	388
Baccarat	3	10
Backgammon	3	17
Badminton	3	35
Bagatelle	3	38
Barley break	3	258
Baseball	3	302
indoor	15	70
records	25	439
Basket-ball	3	312
records	25	440
Basset	3	317
Battledoor and shuttlecock	3	347
Beggar-my-neighbor	3	443
Betting	3	596
and bookmaking (horse racing)	14	412
Bezique	3	606
Bicycle	3	681
Bicycling	25	443
records	25	438
Billiard records	25	439
	25	442
Billiards	3	705
Bowling	4	365
	25	443
records	25	440
Boxing	4	369
Boxing day	4	370
Boxing records	25	438
Brassy (golf)	13	38
Broadswords	11	113
Bull-baiting	5	9
Bull-fight	5	9
Cabaret	5	115
Caber	5	117
Caddies (golf)	13	38
Cestus	6	232
Calisthenics	5	223
Capitoline games	5	566
Card-playing in France, first traces of	5	604
Cards	5	604
modern pack of	5	604
Carnival	5	640
Carrousel	5	674
Casino	5	712
Cast	5	714
Casting line	5	714
Cestus	6	232

General — cont'd	Vol.	Page
Champion	6	271
Charade	6	302
Checkers	6	371
Chess	6	424
	16	484
records	25	439
Circus	6	696
maximus	14	200
Clapnet	7	32
Claque	7	33
Claymore	11	113
Cleek (golf)	13	38
Clown	7	135
Cockfighting	7	187
College athletics	25	440
College races in the United States, first	23	780
Community drama, or civic drama	7	419
Community music	7	420
Conjuring	7	523
Cribbage	8	190
Cricket	8	191
Croquet	8	227
Curling	8	309
Curse of Scotland, the	8	315
Decoy	8	572
Deer stalking	8	584
Derby Day	8	710
Derby winners	14	415
Dibbs	9	76
Dice	9	77
	17	670
Discus	9	157
Diving	9	203
	23	203
Doggett's coat and badge	9	230
Dominoes	9	248
Dormy (golf)	13	38
Dormy three (golf)	13	38
Draw poker	22	285
Driver (golf)	13	38
Driving	9	338
Dutch concert	9	434
Ecarté	9	522
Egg dance	9	728
English Derby winners	14	415
Epsom	10	439
Euchre	10	561
Falconry	10	728
Fantan	11	12
Faro	11	44
Fast and loose	11	51
Fencing	11	113
counter parries	11	113
lunge	11	114
records	25	440
riposte	11	114
simple parries	11	113
Ferreting	11	140
Ferris wheel	11	141
Figure skating	25	66
Fishing tackle	11	293
Fives	11	305
Flies (fishing)	11	294
Flinch	11	355
Floating gill-net	22	473
Fly-casting	11	406

General — cont'd	Vol.	Page
Foil	11	113
Folies-Bergère	11	415
Football in America	11	455
Football records	25	439
Fox hunting	11	566
Foyer	11	568
Gambling	12	262
Game areas in North America	14	516
Games	12	266
Gaming	12	262
Gavotte	12	345
Geisha	12	360
Gig	22	303
Gladiators	12	676
Goldsmith Maid	13	34
	14	388
Golf	13	37
Golf records	25	440
Gymæcum	13	591
Gymnasium	13	588
Gymnastics, history of	13	588
Handball	11	305
	13	672
Handicapping	13	673
Handicapping (horse racing)	14	412
Harness speed	25	435
Hawking	10	728
Hazards (golf)	13	37
Hemenway Gymnasium	13	590
Henley Royal Regatta	23	730
Hippodrome	14	200
Hippodrome at Olympus	14	200
Hippodrome de Longchamps	21	315
Hockey	14	306
records	25	440
Hooks	11	294
Horce racing	14	410
early history of	14	410
meetings	14	411
records	14	414
Horse, racing, breeding and training of	14	410
trotting and pacing records	14	408
	25	442
Hunting	14	515
Hunting dogs. See Domestic Animals.		
Hurdle jumping	25	442
Hurling	14	521
Ice boat of 1790	14	626
Ice polo	14	624
Ice yachts and ice yachting	14	624
Intercollegiate Association of Amateur Athletes of America	2	499
International yachting	29	602
Iron (golf)	13	38
Jai-Alai	21	488
Japanese sword play	11	114
Jester	16	36
Jiu jitsu	16	147
Jockey clubs	14	411
Jockeys, American	14	414
Judy	16	238

General — cont'd	Vol.	Page
Juggler	16	238
Jumping records	25	442
Juvenalia	16	269
Keno	16	359
Kino	16	359
	16	450
Kite	16	465
Kriegspiel	16	543
Kris Kringle	16	543
La Crosse	16	570
La Morra	16	577
Lampadedromy, or Lampadephoria	16	683
Lawn tennis	17	143
records	25	440
table	22	101
Legerdemain	17	242
Links (golf)	13	37
Loo	17	649
Lottery	17	670
Lotto	17	670
Louisiana State Lottery	17	670
Marbles and marble playing	18	266
Mardi Gras	18	276
Marionnettes	23	24
Mashie (golf)	13	38
Mask	18	378
Masquerade	18	392
Masques	18	393
Medicina Gymnastica	13	589
Minstrel	19	212
Minuet	19	215
Misrule, Lord of	19	227
Moorish dance	19	479
Motor-boat races	19	516
Motor-boat racing	25	436
records	25	443
Motorcycle records	25	443
Moulin Rouge	19	520
Mountain climbing	19	529
Nemean games	20	69
Niblick (golf)	13	38
Nine-pins	20	351
Nur-and-spell	20	500
Nursery games	20	506
Odeon	20	582
	21	317
Olympic games	13	371
	20	674
	25	434
Ombre	20	681
Outdoor theatres	21	54
Pageant	21	97
Pageantry	21	99
Pall-Mall game	21	207
Pan-Athenaic games	25	434
Pari-mutuel system	14	413
Pelota	21	488
Pentathlon	25	434
Penuchle	22	103
Pheasant shooting	21	716
Physical training	22	31
Ping pong	22	101
Pinocle	22	103
Pinwheels	23	45
Piquet	22	113
Pitch and hitch	22	120
Pitch and toss	22	120
Players' Club	22	242
Poker	22	285
Policy	22	303
Polo	22	325
Pool records	25	439
Popinjay	22	361
Pour et contre	11	44
Prairie chicken hunting	22	506
Prime	22	578
Primero	22	578
Prize fighting	22	617
	25	438

General — cont'd	Vol.	Page
Punch and Judy	23	16
Puppet shows	23	24
Putting green (golf)	13	37
Putter (golf)	13	38
Pyrotechnic set pieces	23	45
Pythian games	23	49
Quadrille	23	54
Quarter-staff	23	63
Quoits	23	101
Race horse, owners, prominent	14	414
Racing (horse)	14	410
Racing rules (yacht)	14	625
	29	603
Racing yachts	29	603
Rackets	23	114
Racquets	23	114
Rail shooting	23	137
Rapier	11	113
Reels	11	293
	23	296
Regatta	23	318
Revels, master of the	23	442
Riddle	23	510
Rifle clubs	23	517
Rockets	23	45
Rods, fishing	11	293
Roller skate	23	636
Roman candles	23	45
Roque	23	687
Rose festival	23	694
Rouge et noir	23	720
Roulette	23	721
Rounders	23	722
Rowing	23	729
records	25	440
technics of	23	730
Rugby	11	455
Running records	25	441
Safety bicycle, rear-driven chain	15	285
Sailing	14	625
Sculling	23	732
Secular games	24	521
Seven-up	24	610
Shore-bird shooting	24	745
Shotgun	24	755
Silkworm gut	25	7
Skat	25	65
Skates and skating	25	65
Skates, rolling	23	636
Skating	25	443
figure	25	66
records	25	66
	25	440
Ski	25	69
Skittles	25	77
Small arms	25	103
Small swords	11	113
Smuggler	14	388
Snowshoe	25	152
Solitaire	25	242
Sports and sporting records	25	434
	25	441
Stag hunting	23	281
Steeplechasing	25	608
Sun dance	1	547
	26	27
Swimming	26	134
bracing stroke	26	135
breast stroke	26	134
championships	25	440
	26	136
on the back	26	135
overhand stroke	26	135
records	25	442
side stroke	26	135
stroke	26	134
Table lawn-tennis	22	101
Target shooting	25	103

General — cont'd	Vol.	Page
Teddy bears	9	517
Tee (golf)	13	38
Teeing ground (golf)	13	38
Tennis	17	143
	25	440
Throwing weights, records	25	442
Toboggan	26	665
Togue	26	669
Track and field athletics	25	440
Trap-net	22	473
Trap-shooting	27	15
glass ball	27	16
contest, First International	27	16
records	25	439
	25	442
tournament, first international	27	16
towers	27	16
Treading water	26	136
Trente et quarante	23	720
Trolling	27	84
Trotting (horse)	14	407
records	14	408
	25	435
	25	442
Tug-of-war	27	132
Turf guides	14	387
Turnverein	13	589
Venetian regatta	23	729
Ventriloquism	28	8
Vingt-et-un	28	108
Waits	28	215
Walking records	25	441
War dance	28	677
Whist	29	260
Wicket	29	293
Wicking	29	293
World baseball championships	25	439
World pacing records	25	442
World sport records	25	434
	25	441
World trotting records	25	442
Wrestling	29	567
records	25	440
Yachting	29	601
international	29	602
records	25	435
Yachts	29	601
See also **Customs and Social Life; Sociology**		

Biographies

	Vol.	Page
Abbot, Samuel	1	15
Barnum, Phineas Taylor	3	269
Belmont, August	3	493
	14	414
Bliguer, Paul Rudolf von	3	702
Bonner, Robert	4	219
Broughton, Jack	22	618
Buffalo Bill	7	198
Butler, James	14	414
Camp, Walter	5	270
Cody, William Frederick	7	198
Colquhoun, John	7	332
Croker, Richard	8	220
	14	414
Danican, François André	21	740
Davenport, Ira E	8	498
Deerfoot	8	584
Egan, Pierce (the Elder)	9	720
Eiselen, Wilhelm Bernard	10	41
Fay, Charles Ernest	11	71
Fitzsimmons, Robert	11	303
	22	618

Biographies — cont'd	Vol.	Page
Foster, Robert Frederick	11	530
Fuller, Francis	13	589
Hermann, Alexander	14	129
Hoyle, Edmond	14	461
Hutchinson, Horatio Gordon	14	529
Jeffries, James J.	22	618
Keene, James R.	14	414
Lasker, Emmanuel	16	757
Lipton, Sir Thomas Johnstone	17	471
McAllister, Ward	18	6
Mackay, Clarence H.	14	414
	18	63
McLoughlin, Maurice Evans	18	81
Mackenzie, George Henry	18	68
Marshal, Frank	18	325
Mendoza, Daniel	22	618
Mitchell, Charles	19	265
Morphy, Paul Charles	19	472
Patch, Samuel	21	379
Pillsbury, Harry N.	22	87
Pough, John	13	589
Rarey, John S.	23	219
Rice, Daniel	23	485
Roberts, R. J.	13	590
Ross, J. K. L.	14	414
Selous, Capt. Frederick Courtney	24	545
Spalding, Albert Goodwill	25	341
Staunton, Howard	25	538
Steinitz, William	25	612
Sullivan, John L.	22	618
	25	808
Travers, Jerome Dunstan	27	20
Whitney, William C.	14	414
	29	284
Whitney, Harry Payne	14	414

ARCHITECTURE

General	Vol.	Page
Abacus	1	6
Abside	3	308
Acanthus in art	1	66
Acroterion	1	105
Ægean architecture	2	174
Aix-la-Chapelle cathedral	6	61
Aisle	1	200
Alabaster mosque	5	149
Alcázar	24	623
Alexandrian period	13	382
Amphitheatre	1	590
Anglo-Norman churches	23	652
Antonine Column	2	45
Apartment house	2	53
Apse	2	102
Arabesque, Arabian	2	116
Arabesque, Moorish	2	116
Arabic architecture, Spanish	2	177
Arabic architecture, Mohammedan	19	297
Arræstyles	15	212
Arc de Triomphe de l'étoile	21	315
Arc du Triomphe du Carrousel	21	316
Arch	2	149
Archangel cathedral	6	61
Architects, Spanish	25	344
Architecture	1	290
	2	169
	11	218
Ægean	2	174
Byzantine	2	177
	5	102
and art, Chinese	6	549
Christian	6	601
Colonial	27	646
Colonial, Mexican	18	778
color effects in	22	328
Doric	2	174
	12	381
Dutch	6	61
early Christian	2	176
early English	9	487
education in	2	188
Egyptian	2	170
	10	12
Elizabethan	10	249
English	10	360
feudal	11	159
first period, Russia	24	28
French	12	62
French Romanesque	22	327
Georgian	12	490
	27	547
German	12	564
Gothic	2	179
	13	76
Greek	13	381
Hittites	2	173
Italian	15	520
Japanese	15	699
military prehistoric	19	62
modern	2	181
Mohammedan	2	177
	19	297
monastic	19	337
	20	404
Norman	23	590
orders of	20	764
Oriental	26	723
Palladian	21	207
Pelasgian	21	482
Persian	2	177
	21	623
Phœnician	2	173
	21	788
pitch in	22	120
pointed	22	282
Renaissance	2	179
Roman	2	175
	23	671
Romanesque	2	178
	23	651
Romano-Christian	2	176
Russian	24	27
Sasanian	2	177
Saxon	24	342
sepulchral	15	515
	24	575
Turkish	19	298
United States	27	545
Venetian	15	521
Architrave	2	186
Archivolt	2	186
Arena, Grecian	14	201
Ashikaga period of Japan	15	700
Assumption, Cathedral of the	6	61
Assyria	2	172
Astragal	2	451
Atlantes	2	503
Atrium, Roman	2	518
	3	308
Attic order	2	522
Augustus, Mausoleum of	2	551
Azhar Mosque	19	502
Bagdad Kiosk	16	452
Bajazet, Mosque of	3	58
Babylonia-Assyrian style	2	436
Balcony	3	74
Ball flower	3	94
Ballister	3	124
Baluster	3	124
Balustrade	3	124
Band	3	136
Baptistery	3	219
Barberini Palace	3	326
Barocco	3	270
Baroque	3	270
Baroque style, Italian	4	283
Barrel vaults	27	702
Base	3	301
Basement	3	306
Basilica	2	176
	3	308
Basilican types, early	23	652
Batalha	3	326
Bath-houses	3	334
Bay	3	358

General — cont'd	Vol.	Page
Beam	3	377
Bearing	3	382
Beaux-Arts Architects, Society of	3	397
Belfry	3	455
Bell tower, Italian	22	115
tower, Spanish	24	623
Belvedere	3	495
Benedictine monasteries	19	337
Berlin	6	61
Beverley	3	602
Billet	3	705
Blending period	2	180
Blenheim House	4	77
Blinds	4	87
Bonanno	4	203
Boss	4	290
Bow window	4	359
Buhlwork	4	701
Buildings, Roman	24	513
Burgos Cathedral	6	61
Buttress	5	92
Byzantine	2	177
	5	102
Byzantine Cathedral	26	702
Campanile	5	275
The	22	115
Canopy	5	525
Capitol	5	560
at Washington	5	565
Carlovingian style	12	62
Caryatides	5	692
Caryatids	5	692
Cashel Abbey	15	327
Castle of Bonaguil	19	65
of Saint Angelo	24	575
Castles	19	64
historic	6	10
Catharine wheel	2	56
Cathedrals and churches	6	57
American	6	61
Dutch	6	61
early Roman	6	57
English	6	59
Flemish	6	61
French	6	58
German	6	60
Gothic	26	558
Italian	6	57
Irish	6	59
Portuguese	6	61
Russian	6	61
Scandinavian	6	61
Scotch	6	59
Spanish	6	61
Swiss	6	61
Cella	6	173
Century Theatre	26	498
Chaldæan style	2	172
Chapel	6	295
Chinli Kiosk	16	452
Chapter House	6	300
Chancel	6	276
Chantry	6	293
Chateau Gaillard	19	64
Chevet	6	431
Chevron	6	432
Chichester Cathedral	6	60
Choir	6	582
Church	6	654
embellishments	24	25
Churrigueresque, Spanish	6	664
	18	778
Ciborium	6	667
Cinquefoil	6	688
Cippus	6	690
Circular buildings	15	515
Circus Maximus	6	696
	14	202
Civil architecture	15	515

General — cont'd	Vol.	Page
Civilization, history of pre-Christian	7	24
Classic period	2	181
Clearstory	7	90
Clerestory	3	308
	7	90
Clustered column	7	139
pier	7	139
Coffer	7	211
Cologne	6	60
Colonna Palace	7	299
Colonnade	7	299
Coliseum	23	665
Colosseum	23	665
Column	7	344
Vendome	21	316
Composite	20	764
order	7	446
Compluvium	2	518
Congress, Library of	17	387
Consistorium	3	308
Constantine Arch	23	665
Corbel	7	679
steps	7	679
Corbie steps	7	679
Cordova Mosque	6	61
Corinthian Order	7	693
	20	764
style	2	175
Cornice	7	714
Corona	7	718
Corridor	8	19
Cottage	8	58
Cresting	8	183
Crocket	8	217
Cross	8	238
Crow steps	7	679
Crown	8	247
Crypt	8	265
Cuma, tomb of	15	515
Cupola	8	304
Cyclopean works	8	362
Cyma	8	364
Cyprus, architecture of	2	173
Dado	8	390
Dagoba, Buddhist	8	392
Javanese	4	281
Decorated style	8	567
Decorative art	8	567
	19	298
Dentils	8	688
Design	9	9
Diastylos	15	212
Diana, Temple of	9	69
Diaper ornament	9	70
Distyle	9	195
Discharge	9	150
Doge's Palace	9	229
Dogtooth	9	232
Dome	8	304
Domestic architecture	13	78
Door	9	262
Doors of antiquity	9	262
Doric order	9	265
	20	764
Dormer window	9	266
Dormitory	9	266
Dripstone	9	337
Dutch doorway	27	546
Durgah, The	9	424
Durham Cathedral	6	60
Egypt, architecture of	2	170
	10	12
Eiffel Tower	10	27
Elizabethan	10	249
Ely Cathedral	6	60
English	10	360
Entablature	10	398
Entasis	10	399
	15	101
Entresol	10	404

General — cont'd	Vol.	Page
Erechtheum	2	494
	10	472
	13	382
Escorial, Spanish	10	496
Escurial, Spanish	10	496
Espalier, French	27	38
Eustylos	15	212
Exedra	10	628
Exeter Cathedral	6	60
Expanding vault	27	702
Façade	10	697
Fan-Tracery	11	9
vaulting	27	703
Fascia	11	50
Fauces	11	61
Fenestration	11	116
Festoon	11	157
Fillet	11	210
Finial	11	223
Fireplace	27	547
Flamboyant	11	328
	13	77
Flemish churches	6	61
Fluting	11	405
Flying buttress	11	406
France, architecture of	11	694
	12	62
French, modern	12	64
Frieze	12	110
Gable	12	214
Gallery	12	244
Gallo-Roman	12	62
Gargoyle	12	292
Georgian	12	490
German	12	564
German Alhambra	14	69
Germigny-des-pres, Basilica of	15	520
Giant clam	24	686
Giralda	12	663
Gloucester Cathedral	6	60
Gothic	2	179
	13	76
Gothic revival	27	548
Government offices of London	17	624
Grandmontine monasteries	19	338
Grand Opera, Paris	21	317
Great Tope	26	700
Grecian Doric	9	265
Greece, architecture of	2	174
	13	381
Green Mosque	19	298
Grotesque	13	490
Gutta	13	581
Gutter	13	582
Hadrian's Villa	28	86
Hagia Eirené	5	104
Hagia Sophia	2	177
	5	103
	5	104
Helan Period	15	700
Helix	14	81
High vault	11	407
Hippodrome	14	200
Hippodrome, American	14	202
French	14	202
Hittites, architecture of	2	173
Houses of Parliament	17	623
Impost	14	727
Impluvium	2	518
India	15	17
Indian monuments	2	178
Intercolumniation	15	212
Interior decoration	13	217
Ionic, Greek	13	381
Order	15	295
	20	764
style	2	175
Italian	15	520

General — cont'd	Vol.	Page
Jain Temple	15	18
Jalousies	29	384
Japanese	15	699
Joan of Arc, statue of	21	316
Kahrié Jami	5	104
Kannaruc, Black Pagoda of	15	19
Kioak, Turkish	16	451
Korean style	15	700
Kubbet-es-Lakrah	5	105
	20	680
Labyrinth	16	624
La Comédie Française	21	317
Lacunar	16	640
Lancet window	16	690
Landscape architecture	16	707
Lantern	16	737
Lantern of Demosthenes	17	787
Leaning Tower	5	275
	22	115
Levantine monasteries	18	337
Library architecture and construction	17	386
Lichfield Cathedral	6	60
Lincoln Cathedral	6	60
Lincoln Memorial	17	455
Lintel	17	467
Loggia	17	599
Lombard churches	23	652
London, courts of law	17	624
London Tower	17	622
palaces	17	624
Lotiform	22	86
Louvre	17	693
Lübeck Cathedral	6	61
Luxembourg Palace	17	764
Lycian architecture	2	173
Lydian architecture	2	173
Lysicrates, monument of	17	787
Madison Square Garden	18	101
Madeleine, La	18	97
Maghazils	21	788
Maison Carrée	18	152
Mansard roof	18	233
Marzabotto, excavations of	15	516
Masonry fence	11	112
Mastaba	18	417
Materials, strength of	25	728
Mausoleum	18	453
Maya buildings	18	728
Mediæval castles	26	723
Metal work	18	696
Mezzanine	10	404
	19	6
Middle Ages, architecture of	19	64
Middle Pointed Period	2	179
Minaret	19	146
Minute	19	215
Miserere	19	226
Modern	2	181
Module	19	289
Mohammedan	2	177
	19	297
Mole of Hadrian	24	575
Moles Hadriana	13	611
Monasteries, Cistercian	19	337
Monticello Mansion	19	411
Monuments	19	420
Persian	19	297
secular	13	78
Moorish style	19	297
Moresque style	2	177
Mormon administration building	24	204
Mosaic	19	493
Mosque	19	297
	19	501
Mullion	19	560
Nalanda, University of	15	19
Napoleon, tomb of	21	316

General — cont'd	Vol.	Page
Narthex	3	308
	19	710
Naval architecture	19	788
Nave	20	6
Nero, Baths of	26	525
Newel	20	266
Norman	20	404
Norman style	2	178
Notre Dame de Paris	6	58
	9	118
	21	306
de Lourdes	4	345
Octostyle	20	575
Odeon	21	319
Œil-De-Bœuf	20	594
Ogee	20	606
Old New Synagogue (Prague)	16	111
Omar, Mosque of	19	296
	20	680
Opéra Comique, Paris	21	317
Pagoda	21	103
Palace of Minos	13	381
Palace of Palenque, the	21	139
Palaces, 13th century	15	521
Palais de Justice	21	134
de Trocadéro	21	310
Royal	21	316
Pantheon	21	250
Paris	21	316
Roman	2	176
Parliament, Houses of (London)	17	623
Parquetry	21	342
Parterre	21	352
Parthenon	2	494
	13	382
	21	584
Parvise	21	360
Patera	21	389
Pavilion	21	428
Pediment	21	465
Pendentive	21	500
Periclean Age	13	381
Peristyle	3	308
	21	597
Perpendicular	13	77
style	21	606
Persian	21	623
monuments	19	297
Peterborough Cathedral	6	60
Phiale	14	201
Philadelphia buildings	21	728
House	27	547
	21	789
Phœnician style	2	173
Phrygian style	2	173
Piazza	22	61
Pillar	22	86
Pilaster	22	88
Pinnacle	22	103
Pisa, Leaning Tower of	22	115
Piscina	22	117
Pitti Palace	22	123
Plinth	22	249
Podium	22	271
Pœcile	22	273
Pointed Period, Early	2	179
Portico-in-antis	22	86
Portuguese art	22	418
Prehistoric monuments	2	169
Presbyterium	3	308
Pronaos	3	308
Propylæa	2	494
	21	584
	22	668
Proscenium, Greek	22	669
Roman	22	669
Prostyle	22	670
Proto-Doric	22	86
Prytaneum	22	725
Public buildings, etc	19	495

General — cont'd	Vol.	Page
Pyconostylos	15	212
Pyramid	23	40
Pythagoras, tomb of	15	516
Quatrefoil	23	70
Quoin	23	100
Ravenna Cathedral	23	234
Reims Cathedral	6	58
	23	456
Relief	23	341
Renaissance	2	179
	12	63
Reredos	23	407
Restoration	23	420
Rheims Cathedral	6	58
	23	456
Rhenish Abbey churches	23	652
Rhenish architecture	12	566
Rocaille	23	618
Rochester Cathedral	6	60
Rococo	23	618
Roman	2	175
Roman Doric	9	266
Romanesque	2	178
	12	62
	23	651
churches, French	23	652
Romano-Christian	2	176
Rome, architectural	2	175
its more modern architecture	23	671
Rood screen	23	678
Roof	23	678
pitch of	19	679
Rose window	23	694
Rostra	23	713
Round-arched Gothic style	23	651
Round towers	15	329
Russian	24	27
Sacrarium	3	308
Saint Basil's Church	6	61
Sainte Chapelle	24	172
Saint Isaac's Church (Dalmatia)	6	61
Saint John the Divine Cathedral	2	150
	6	62
Saint Mark (Venice)	2	177
	5	104
	6	58
Saint Patrick's Cathedral, New York	6	62
Saint Paul's Cathedral	6	59
	17	623
Saint Peter's (Rome)	6	59
	23	659
Saints Peter and Paul, Cathedral of	6	61
Saint Sophia	6	61
	19	298
	25	61
Saint Thomas' Church (New York)	6	62
Salisbury Cathedral	6	60
	24	187
Sanchi tope	15	18
Santa Maria della Spina, Church of	22	115
Santa Maria la Blanca	16	111
Sasanian	2	177
Saxon	24	342
Scandinavian style	6	61
Screen	24	449
Second Period, Russian	24	28
Sedilia	24	524
Seraglio	24	577
Seville Cathedral	6	61
	24	623
Seven Lamps of Architecture	24	609
Shichido Garan	15	700

General — cont'd	Vol.	Page
Sistine Chapel	11	193
	27	697
Skerryvore lighthouse	25	69
Spandrel	25	343
Spandril	25	343
Specification	25	371
Sphendone	14	201
Spina	14	201
Spire	25	418
Squinch arch	27	703
Squint	25	465
Stability	19	790
Stair	25	471
Stall	25	473
Stama	14	201
Steeple	25	608
Stilted arch	25	651
Stoop	25	696
Storey	25	700
Story	25	700
Strap work	25	710
Strength of materials	25	728
Structural strength	19	789
Strut	25	742
Stucco	25	750
Stupa	26	700
Stylobate	25	759
Swiss architecture	6	61
Symmetry	26	167
Synagogue architecture	16	111
Systylos	15	212
Tabernacle, Mormon Church	19	465
Tablinum	26	199
Taj Mahal	2	178
	15	19
	19	298
	19	421
	24	575
	24	640
	26	219
Temle	26	408
Temple Bar	26	408
Temple of Beau Relief	21	140
of Apollo	2	175
of Concord	1	267
of Cross	21	140
of Hercules	1	267
of the Sun	21	140
of Theseus	2	494
of the Three Tablets	21	140
of Zeus	1	267
of Zeus Olympius	2	494
Temples, Rock-cut Cave	15	18
Terra cotta	26	445
Theatre	26	491
largest in America	26	493
Middle Ages	26	492
Renaissance to the present	26	493
in architecture	26	491
of Dionysus	26	492
Theatres, Roman	26	492
Théâtre Français	21	317
Theatrical architecture, Greek	26	492
Thirteenth Century, education along artistic lines	26	561
Throne	26	596
Tholos of Atreus	13	381
Tiles	26	625
Titus, Arch of	23	665
Tokugawa Period (Japan)	15	700
Tomb of Agamemnon	13	381
Tooth ornament	26	698
Tope	26	700
Tower	26	723
Tower of London	17	622
Tower of the Winds	13	382
round	26	723

General — cont'd	Vol.	Page
Tracery	26	738
Transept	27	4
Trefoil	27	36
Trellis	27	37
Trianon, Le Grand	27	52
Tribune	27	53
Tridacna	24	686
Triforium	27	55
Triglyph	27	56
Trinity Church, New York	23	493
Trondhjemfiord Cathedral	27	86
Truss	27	108
Tudor architecture	27	131
Tumulus of Petriera	15	515
Turkish type	2	178
	19	298
Turret	27	207
Tuscan architecture	20	764
churches	23	652
United States	27	545
Vatican	28	658
	28	660
	27	697
Vault	27	701
underpitch	27	702
Vaulting, Renaissance	27	704
rib	27	703
Vaults, compound	27	702
groined	27	702
irregular	27	702
Welsh	27	702
Victorian Gothic	2	182
Vignole	11	694
Villa	28	86
Vignon	11	694
Villa Adriana	28	86
Albania	28	86
Ludovisi	28	87
Pallavicini	28	87
Vise	28	133
Volute	28	183
Voussoir	28	194
Westminster Abbey	6	59
	17	623
Wheel window	29	250
Winchester Cathedral	6	60
Window	29	384
Winged bull	29	395
Worms Synagogue	16	111
Yildiz Kiosk	16	452
York Minster	6	60
See also **Building and Construction; Engineering; Fine Arts.**		

Biographies

UNITED STATES

Biographies — cont'd	Vol.	Page
Atwood, Charles B.	2	528
Benjamin, Asher	3	517
Bloor, Alfred Janson	4	117
Bulfinch, Charles	4	716
	27	548
Carrere, John Merven	5	665
Clark, Edward	7	41
Cobb, Henry Ives	7	174
Cook, Walter	7	623
Coolidge, Charles Allerton	7	633
Cady, J. Cleveland	5	136
Chandler, Francis Ward	6	286
Cram, Ralph Adams	8	152
Cummings, Charles Amos	8	300
Eames, William S.	9	476
Eliot, Charles	16	709
Eyre, Wilson	10	685
Ferree, James Barr	11	138
Flagg, Ernest	11	324
Gallico, Paolo	12	247

Biographies — cont'd	Vol.	Page
Gardner, Eugene C.	12	289
Gibson, Robert Williams	12	645
Gilbert, Cass	17	386
Griffin, Walter Burley	13	420
Hamlin, Alfred Dwight Foster	13	663
Haviland, John	13	767
Hoban, James	27	548
Howard, John Galen	14	453
Hunt, Richard Morris	14	512
	27	548
Jefferson, Thomas	16	1
	27	548
Joy, Thomas	16	225
Kendall, William Mitchell	16	352
La Farge, Christopher	16	571
Lamb, Charles Rollinson	16	670
Latrobe, Benjamin H.	17	97
	27	548
Le Brun, Napoleon Eugene Charles Henry	17	162
L'Enfant, Pierre Charles	17	285
Longfellow, William Pitt Preble	17	644
Lowell, Guy	17	700
McComb, John	18	27
McIntire, Samuel	27	547
McKim, Charles Follen	18	71
Maginnis, Charles Donagh	18	122
Marshall, Henry Rutgers	18	325
Masqueray, Emmanuel Louis	18	392
Mead, William Rutherford	18	473
Mills, Robert	19	129
	27	548
Moore, Charles Herbert	19	428
Mullett, A. B.	27	548
Partridge, William Ordway	21	357
Peabody, Robert Swain	21	439
Pelz, Paul Johannes	21	490
Platt, Charles Adams	22	238
Pope, John Russell	22	361
Post, George Browne	22	423
Potter, Edward Tuckerman	22	451
Poulson, Niels	22	460
Pray, James Sturgis	22	515
Putnam, John Pickering	23	34
Renwick, James	23	382
	27	548
Richardson, Henry Hobson	15	222
	17	387
	23	493
	27	548
	27	549
Schoeborn, August	24	384
Seeler, Edgar Viguers	24	529
Sturgis, Richard Clipston	25	757
Sturgis, Russell	25	757
Sullivan, Louis	27	549
Taylor, James Knox	26	299
Thornton, William	5	565
	26	588
Town, Ithiel	26	724
Trowbridge, Samuel Breck Parkman	27	98
Upjohn, Richard	27	584
	27	548
Upjohn, Richard Mitchell	27	584
Van Brunt, Henry	27	663
Van Pelt, John Vredenburgh	27	673
Vaux, Calvert	16	709
	27	705
Walters, Thomas Ustick	28	249
Ware, William Robert	28	702
Warren, Whitney	28	710

Biographies — cont'd Vol. Page

Wheelwright, Edmund March 29 253
White, Alfred T..... 26 414
White, Stanford 29 268
Wight, Peter Bonneth.. 29 299

BRITISH

Audsley, George Ashdown 2 537
Badgley, Sidney Rose... 3 35
Barry, Sir Charles..... 3 284
Barry, Edward Middletown 3 285
Bentley, John Francis.. 3 527
Billings, Robert William 3 707
Blomfield, Reginald 4 103
Bourassa, Napoléon 4 345
Bray, Sir Reginald..... 4 423
Butterfield, William.... 5 88
Carôe, William Douglas. 5 645
Chambers, William..... 6 264
Champneys, Basil 6 275
Cockerell, Charles Robert 7 186
Conder, Josiah..... 7 479
Darbyshire, Alfred..... 8 472
Ewart, David..... 10 614
Fergusson, James..... 11 124
Fletcher, Banister Flight 11 348
Fuller, Thomas 12 155
Grimthorpe, Edmund Beckett Denison..... 13 477
Jackson, Sir Thomas Graham 15 581
Jones, Inigo..... 16 197
Jones, Owen..... 16 201
Kent, William 16 362
Nash, Sir John..... 19 712
Pearson, John Loughborough 21 458
Pugin, Augustus Charles 22 793
Pugin, Augustus Welby Northmore 22 793
Rickman, Thomas..... 23 509
Sachs, Edwin O..... 24 88
Scott, Sir George Gilbert 24 439
Shaw, Richard Norman. 24 666
Smith, Thomas Roger.. 25 128
Soane, John..... 25 153
Spiers, Richard Phené.. 25 410
Street, George Edmund. 25 724
Stuart, James..... 25 746
Tite, Sir William..... 26 647
Vanbrugh, Sir John..... 27 676
Walpole, Horace..... 23 656
Waterhouse, Alfred 29 70
Watson, George Lennox 29 108
Webb, Aston..... 29 142
Wren, Christopher..... 29 566
Wyatt, James..... 29 580
Wyatt, Matthew Digby. 29 580

FRANCE

Bailly, Antoine Nicolas. 3 53
Baltard, Louis Pierre... 3 112

Biographies — cont'd Vol. Page

Baltard, Victor..... 3 112
Benard, Henri Jean Emile 3 499
Bouvard, Joseph Antoine 4 356
Bullant, Jean 5 14
Cassas, Louis François. 5 707
De L'Orme, Philibert... 8 625
Duban, Jacques Félix.. 9 368
Duc, Joseph Louis..... 9 375
Errard, Charles..... 10 484
Etex, Antoine..... 10 531
Felibien, André..... 11 100
Fontaine, Pierre François Léonard 11 426
Formige, Jean Camille.. 11 491
Garnier, Jean Louis Charles 11 694
12 295
Goujon, Jean 13 83
Hittorff, Jacques Ignace 14 299
Lassus, Jean Baptiste Antoine 16 759
Lefuel, Hector Martin.. 17 233
Lenoir, Alexander Albert 17 287
Mansard, François 11 689
18 233
Mansard, Hardoin..... 11 689
Mansart, Jules Hardouin 18 233
Percier, Charles..... 21 571
Perrault, Claude 11 689
21 605
Viollet-le-Duc, Eugène Emanuel 28 107
Visconti, Louis Julius Joachim 28 133
Wilars de Honecourt... 29 300

GERMANY

Adler, Friedrich..... 1 142
Arler, Peter..... 21 338
Ende, Hermann 10 318
Ensingen, Ulrich von ... 12 566
Licht, Hugo 12 569
Messel, Alfred..... 12 569
Parler, Peter 21 338
Schäfer, Karl 12 569
Schinkel, Karl Friedrich 24 374
Schluter, Andreas..... 24 381
Seidl, Gabriel 12 569
Semper, Gottfried 24 556
Steinbach, Erwin von... 10 486

ITALY

Ammanati, Bartolomeo. 1 577
Averulino, Antonio 11 205
Barozzi, Giacomo 28 85
Bernini, Giovanni Lorenzo 3 574
Borromini, Francesco... 4 288
Bramante, Donato d'Agnolo 4 408

Biographies — cont'd Vol. Page

Brunelleschi, Filippi.... 15 523
Brunelleschi, Filippo di Ser Lappi..... 4 633
Cagnola, Luigi, Marchese 5 145
Cambio, Arnolfo Di.... 2 319
Falconetto, Giovanni Maria 10 727
Fansaga, Cosimo..... 11 12
Ferri, Ciro..... 11 140
Filarete, Antonio..... 11 205
Firenze, Antonio De.... 11 205
Fontana, Carlo..... 11 426
Fontana, Domenico..... 11 426
Fuga, Ferdinando..... 12 148
Grimaldi, Giovanni Francesco 13 474
Guarini, Camillo-Guarino 13 515
Juvara, Filippo..... 16 269
Lapo, Arnolfo Di..... 2 319
Laurana, Luciano da... 17 107
Michelangelo Buonarrote 19 15
Micheloszo, Micholozzi.. 19 18
Montorsoli, Fra Giovanni Angelico da..... 19 413
Palladio, Andrea..... 21 208
Peruzzi, Baldassare.... 21 652
Piranesi, Giovanni Baptista 22 114
Pisano, Giovanni..... 22 116
Pollajuolo, Simone del.. 22 319
Sangallo, Antonio da... 24 260
Sangallo, Juliano da.... 24 260
Sansovino, Jacopo Tatti. 24 275
Scamozzi, Vincenzo..... 24 350
Tibaldi, Pellegrino..... 26 605
Vanvitelli, Luigi..... 27 686
Vasari, Giorgio..... 27 693
Vignola, Giacomo Barozzi 28 85

OTHER COUNTRIES

Apollodorus 2 64
Araujo Porto-Alegre, Manoel de..... 2 137
Asam, Hans Georg..... 2 375
Berruguete, Alonzo..... 3 577
Callicrates 5 227
Callimachus 5 227
Cluysenaar, Jean-Pierre 7 140
Cuypers, Peter..... 8 347
Eupalinus of Megara... 10 576
Fischer von Erlach, Johann Bernhard 11 205
Ictinus 14 654
Nüll, Edward vander... 20 484
Pæonius 21 94
Tolsa, Manuel..... 18 729
Tresguerras, Francisco Eduardo 27 49
Vitruvius, Pollio Marcus 28 155
See also Fine Arts, General.

ASTRONOMY

General	Vol.	Page
AB	1	5
Aberration	1	40
Absolute	1	53
Allegheny Observatory	22	129
	22	134
Almagest	2	457
	22	752
Almanac	1	430
nautical	20	1
Alphonsine tables	2	373
American Nautical Almanac	20	1
American observatories	20	551
American Ophemeris	20	1
Amplitude	1	590
Angle	1	683
Annual parallax	21	283
Anomaly	2	5
Anomalistic year	2	5
Anthelia	2	16
Apex of the sun's way	2	56
Aphelion	2	56
Apparent	2	74
April	2	102
Apsides	2	102
Argus nebulæ	20	35
Aries	2	234
Ascension, right	2	378
Aspect	2	404
	25	236
Assyrian astronomy	2	431
Astrology	2	452
Astronomical contractions	26	163
Astronomical horizon	14	381
Astronomy	2	453
	6	77
descriptive	2	453
history of	2	456
practical	2	453
	2	460
theoretical	2	453
	2	467
Astro-photographic Congress	22	6
Astrophotography	2	472
with reflecting telescopes	2	473
with refracting telescopes	2	472
Astrophysics	2	475
August	2	542
Aurora borealis	2	556
Auroral light	2	557
Autumn	2	669
Azimuth	2	689
Bailey's Beads	3	54
	15	391
Belt	3	495
Biela's comet	3	689
Bissextile	4	22
Bode's law	4	144
Calendar	5	191
	7	25
Cancer	5	493
Cardinal points	5	602
Carnegie Solar Observatory	2	459
Celestial mechanics	2	453
Celestial meridians	2	454

General — cont'd	Vol.	Page
Celestial sphere	6	167
Century	6	216
Ceres	2	445
	2	458
	6	225
Chinese cycle	8	361
Chromosphere	26	23
Chromosphere, elevations of	26	23
Chromosphere and photography	22	6
Circle	6	692
Circular velocity	2	469
Clog almanac	7	123
Clotho	7	129
Colure	7	346
Comets	7	355
	17	402
	25	235
Comets, 1910A and Halley's	7	360
Conjunction	7	522
Contact	7	582
Copernican astronomy	2	66
Copernican system	7	648
	14	78
	22	749
Corona	9	548
Corona and photography	22	6
Cosmical ether	10	533
Cosmogony	8	32
Culmination	8	296
Cycle	8	361
Dawes' hole	8	515
Day	8	519
Day, anomalistic	2	5
Day, to express time of	26	631
December	8	558
Declination	2	455
	8	566
Deimos	8	601
Degrees of latitude and longitude	8	600
Degrees, measurement of	8	599
Dichotomy	9	78
Digit	9	117
Dioscuri	9	138
Direct and retrograde	9	143
Diurnal motion	2	466
Diurnal parallax	21	283
Dog days	9	228
Dominical letter	9	243
Dragon	9	295
Double-star systems	8	36
Dudley Observatory	20	551
Earth-moon system	8	36
Eccentric	9	522
Eccentric circle	9	522
Eclipses	2	477
	9	546
moon	9	546
solar	9	548
sun	9	547
Ecliptic	9	554
Elements	2	468
Elongation	10	265
Elevation	10	225
Embolism	10	275
Empyrean	10	309
Enhanced lines	2	477

General — cont'd	Vol.	Page
Ephemeris	10	412
Epicycle	10	419
Equation, personal	10	440
Equator	10	460
Equatorial	2	466
Equinoctial	10	463
Equinoctial points	10	463
Equinoxes	2	455
Equinoxes, precession of	10	464
Erato	10	468
Eros	10	482
Error	10	485
Ether, the	10	533
Euterpe	10	586
Evection	10	594
Faculæ	10	706
Faye's comet	11	72
February	11	76
Fire balls	11	233
Firmament	11	257
Flash spectrum	2	478
Flocculi	2	478
Fraunhofer lines	2	478
	2	479
Friday	12	102
Galactic circle	12	230
Galileo case	6	78
Garmapada	26	676
Gegenschein	12	357
Gemini	12	363
General astronomy	2	453
Geocentric	12	404
	14	78
Globe	12	717
Gnomon	17	96
Goal	23	99
Golden number, cycle of	13	28
Gravitation	13	163
Greenwich Observatory	13	441
Greenwich system	2	458
Hansen, tables of	19	425
Harvard Observatory	2	459
	2	467
Halley's comet	7	355
	17	652
Heaven	14	54
Heavenly bodies, symbols of	26	162
Heliocentric	14	78
Heliocentric system of astronomy	5	550
Heliographic observations of sun spots	22	6
Horizon	14	381
dip of	14	382
plane of	14	381
Hour circles	2	454
Hyperion	14	602
Hypotheses, modern	8	35
Indiction	15	65
Inferior conjunction	25	237
Intercalary	15	207
International date line	15	253
Isostasy	15	422
Iyar	15	570
January	15	618
July	16	244
June	16	247
Juno	2	445
Kalpa	16	285

General — cont'd	Vol.	Page
Katun	16	318
Kepler's laws	16	374
first law	2	468
modified third law	2	468
third law	2	468
Kew Observatory	16	384
Lammas Day	16	677
Lane's law	26	25
Laplace's theory	8	33
Latitude	17	95
Leap year	14	207
	17	178
Leander McCormick Observatory	17	178
Libration	17	394
Lick Observatory	2	459
	17	402
Light, velocity of	2	471
Line of sight, motion in	2	479
Line series	2	476
Longitude	17	645
finding of	17	645
Lost pleiad	17	667
Lowe Observatory	17	699
Lowell Observatory	17	703
Lunar calendar	14	207
cycle	8	361
	19	426
eclipse	17	645
distances	17	645
phases	26	163
tables	17	739
theory	17	739
tide	13	107
Magellanic clouds	18	114
	20	35
	25	497
March	18	268
May	18	461
Mean solar time	2	463
Measurement of a degree of longitude	8	590
Meridian	18	674
Meteoric cycle	18	729
Metonic cycle	13	28
Minute	19	215
Monday	19	343
Month	19	409
anomalistic	19	409
lunar	19	409
nodical	19	409
siderial	19	409
solar	19	409
synodical	19	409
Mount Wilson Solar Observatory	2	460
Nadir	19	678
National Observatory	2	459
	20	550
National Observatory of Argentina	20	551
Nativity	19	767
Natural science in Italy	15	533
Nautical almanac	20	1
astronomy	20	7
Naval Observatory	2	459
Naval Observatory, the United States	20	1
Naval Observatory at Washington	20	551
Neap-tides	20	22
Nubulæ	20	34
and photography	22	6
Nebular hypothesis	20	35
Laplan's	8	33
New Astronomy	22	6
Newton's law of universal gravitation	2	468
New Year's Day	20	187
Nisan	20	369
Node	20	388
Nodes, line of	2	468

General — cont'd	Vol.	Page
Nones	20	396
November	20	477
Nutation	20	509
Observatories, American	20	551
national	20	550
university, European	20	551
Observatory	20	546
Observatory at the Cape of Good Hope	20	551
Obliquity of the Ecliptic	2	455
Occultations	17	645
	20	556
Olbers, hypothesis of	2	444
Olympiad	20	673
Opposition	20	717
Orbit	20	738
Pallas	2	445
	2	458
	21	209
Parabolic velocity	2	469
Parallax	21	282
Paraselene	21	287
Parhelion	21	298
Paris Observatory	20	551
Perigee	2	468
	21	586
Perihelion	2	468
	21	586
Period	25	502
Perturbations	21	642
Phase	21	715
Phasis	21	715
Phobos	8	601
	21	784
Photography to astronomy, application of	2	466
Photosphere	22	16
Physical constitution	24	315
Planetary week	14	207
Planetesimal theory	8	35
Platonic year	22	234
Pointers, the	22	282
Polar circles	22	290
distance	22	291
Pole	22	300
Poor Richard's Almanac	22	355
Poor Robin	22	355
Primum mobile	22	579
Procyon	2	460
Ptolemaic system	14	78
	22	749
Pulkova Observatory	22	795
	20	551
Quadruple system	25	501
Quit	23	99
Ram	2	234
Reactions	23	243
Relation of time to longitude	26	632
Revolution	23	449
Reversing layer	2	478
Right ascension	2	454
Rodolphine tables	16	374
Roman Observatory	6	78
Rotation	23	714
Rowland gratings	2	475
Royal Observatory at Greenwich	20	551
	23	736
Saturday	24	313
Scintillation	24	422
Seasons	24	492
Second	24	511
Secular Acceleration	19	425
September	24	574
Seven-day week	14	207
Shadow clock	7	25
Sidereal clock	24	786
Sidereal day	2	463
Sidereal time	24	786
Smithsonian Astrophysical Observatory	25	134

General — cont'd	Vol.	Page
Solar apogee	2	457
Solar constant	2	480
mean values of	26	24
corona	25	234
cycle	8	361
spectrum	2	477
spots	26	20
system	25	235
Solstice	25	245
Spectra of the elements	2	476
Spectroheliogram	26	20
Spectroscopic binary systems	25	501
Speculum	25	379
Spheres, harmony of	13	719
Spiral nebulas	8	35
Spring	25	451
Standard time	29	13
Stellar spectra	2	481
Summer	26	12
Sun	2	483
	25	235
	25	499
	26	19
age of	26	25
angular rotation of	26	21
aspect of	26	19
dog	26	29
duration of	26	25
eclipses of	9	547
faculæ of	26	22
intensity of gravitation	26	23
measurements	26	19
prominences	26	22
proper motion of	25	499
rotation of	26	21
	26	24
spots	2	477
	2	479
Sun spots, periodicity of	26	22
total eclipses of	15	391
Sun's interior, temperature of	26	23
magnetism	26	24
Sunday	26	30
Superior conjunction	25	237
Symbols, astronomical	26	162
Synodical period	26	175
Thermidor	26	525
Thursday	26	602
Tides	19	426
	26	611
Time, determination of	26	632
local	26	633
measurement of	26	631
of day	2	456
primary object	26	631
regulation of	26	633
sidereal	26	632
signals	26	633
system of	26	632
systems in Europe	26	633
unit of	25	481
universal	26	633
zone system	26	632
Toledo tables	2	373
Transits	27	5
Trifid nebulæ	20	35
Tropic of Cancer	27	94
Tropic of Capricorn	27	94
Tropics	27	94
Tuesday	27	181
Twilight	27	227
Umbra	27	267
Universe	27	573
University observatories, European	20	551
Vesta	2	445
	28	44
Vortices	2	477

General — cont'd	Vol.	Page
Wave lengths	2	475
Wednesday	29	155
Week	29	157
Whirlpool nebula	20	35
Winds, tower of the	1	677
Winter	29	403
World	29	526
Wulfmonath	15	618
Year	29	619
platonic	22	234
Yerkes Observatory	2	459
	20	635
Yooga	29	673
Yuga	29	673
Zenith	29	698
declination of	17	96
Zodiac	29	719
Zodiacal light	25	236
	29	719
Zodiac, signs of	26	163
Zone	29	724

Planets

Asteroids	2	444
	25	235
Asteriod symbols	26	163
Earth	9	488
	25	237
	27	5
internal heat of	9	493
mass of	9	492
rigidity of	9	492
time keeper	9	493
Eros	2	470
	10	482
Georgium sidus (uranus)	14	151
Harvest moon	19	424
Hesperus	14	155
	21	797
Hunter's moon	19	425
Io	15	288
Jupiter	2	480
	16	253
	25	237
eclipses of the satellites of	17	645
fifth satellite of	17	402
Lucifer	17	717
Major planets	25	235
Mars	2	470
	2	480
	18	319
	25	237
moons of	13	640
water vapors on	2	480
Mercury	18	667
	25	236
	25	237
	27	5
transits of	15	391
	27	5
Minor planets	25	235
Moon	2	470
	5	36
	19	423
craters on	19	423
culminations	17	645
eclipse of	19	426
light and atmosphere of	19	423
motion of	19	425
origin of the formations on	19	424
past history of	19	426
phases of	19	425
seas of	19	424
size, weight, etc	19	423
surface changes in	19	424
surface marks of	19	423
white rays of	19	424

Planets — cont'd	Vol.	Page
Moon's parallax	2	470
path	19	425
surface, photography of	19	424
Neptune	2	459
	20	78
	25	237
Phosphorus	21	797
Planet	22	151
	25	235
Planetary contractions	26	163
Planets, satellites of	25	235
Planets, possible unknown	25	236
Satellites	24	311
transits of inner	27	5
Saturn	24	314
	25	237
equator of	24	314
rings of	24	314
rotation of	24	315
satellites of	24	315
Uranus	2	480
	2	459
	14	151
	25	236
	25	237
	27	589
Venus	2	470
	2	480
	25	236
	25	237
	27	5
	28	9
transit of	2	458
	15	391
	27	5
	27	6
	29	9
Vulcan	28	195

Stars and Constellations

Aërolites	18	712
Alcyone	1	352
Aldebaran	1	352
Algol	1	397
	25	502
Alpha centauri	25	503
Andromeda	20	35
Antares	2	14
Antlia	2	44
Antlia pneumatica	2	44
Aquarius	2	106
Arctophylax	4	250
Arcturus	2	189
	25	497
Argo	2	222
Auriga	2	463
	2	555
Beta lyræ	25	502
Betelgeuse	3	589
Binary system	25	500
Boötes	4	250
Camelopardalis	5	259
Canes venatici	5	499
	20	35
Canis major	5	500
Canis minor	5	500
Canobus	5	525
Canopus	5	525
	20	503
Capella	5	550
Capricornus	5	571
Cassiopeia	4	393
	5	712
Castor	25	497
Centaur	6	199
Centaurus	6	199
Cepheus	6	218
Cetus	6	233
Chameleon	6	267

Stars and Constellations — cont'd	Vol.	Page
Charles's Wain	6	328
Circinus	6	691
Circumpolar stars	6	695
Clava coronæ	7	64
Coal sacks	25	497
Columba	7	334
Columba noachi	7	334
Coma berenices	7	347
Constellations	7	562
Corona	7	718
australis	7	718
borealis	7	718
Crater	8	162
Cygni	25	503
Cygnus	8	363
Cynosura	8	367
Cynosure	8	367
Delphinus	8	628
Dipper	9	141
Dog-star	9	229
	25	499
Double stars	9	274
	25	500
Double star systems	8	36
Draco	9	291
Equuleus	10	465
Evening star	10	596
Fixed stars	25	496
Galaxy	19	109
	25	497
Globular star-cluster Messier 13 Hercules	2	474
Great Bear	6	328
	27	598
Guiding star	17	589
Hercules	14	123
Hesperus star	10	596
Hydra	8	162
Leo	17	297
Lepus	17	311
Loadstar	17	589
Lodestar	17	589
Lucid stars	25	496
Lyra	2	463
	11	314
	20	35
Mensa	18	636
Meteoric stones	18	712
Meteorites	18	712
	25	235
Meteors	18	712
	25	235
appearance of	17	645
disappearance of	17	645
Microscopium	19	37
Milky way	19	109
	20	35
	25	497
	27	573
Mira	19	216
Mira ceti	25	502
Mizra	2	482
Monoceros	19	363
Mons	18	636
Nakshatra	19	685
New stars	25	502
North star	20	425
Nova aquilæ	20	462
persei	2	474
Octans	20	574
Ophiuchus	20	706
Orion	20	35
	20	812
Orion stars	25	498
Pegasus	21	471
Perseids	24	744
Perseus	21	612
Pisces	22	117
Polaris	17	589
	22	295
	25	497

Stars and Constellations — cont'd	Vol.	Page
Pollux	25	497
Procyon	25	501
Regulus	23	326
Sagittarius	24	109
Scorpio	24	426
Serpent	24	598
Shooting star, height of	24	742
Shooting-star swarms, orbits of three greatest	24	744
Shooting stars	24	742
Shooting stars and comets, relationship between	24	742
Showers, principal shooting-star	24	744
Sirius	9	229
	25	46
	25	499
	25	500
Star of Bethlehem	25	489
clusters	25	503
Stars	25	496
classification of	2	482
constitution of	25	503
development of	8	36
magnitudes of	25	496
motions of	2	482
naming	25	497
new	25	502
number of	25	497
proper motions of	25	498
radial motion of	25	500
shooting	24	742
spectra of	25	498
speed of	25	499
streaming	25	499
telescopic	25	496
variable	25	501
Southern cross	25	311
Spiral nebula Messier 33 trianguli	2	474
Stella mira	19	216
Taurus	26	286
Thirty doradus	20	35
Unicorn	19	363
Ursa major	23	537
	25	499
	27	598
Variable stars	25	501
Vega	25	500
Vesper star	10	596
Virgo	28	130
Wagoner	2	555

Instruments

Instruments — cont'd	Vol.	Page
Aeroklinoscope	1	180
Altitude and azimuth instrument	1	451
Artificial horizon	14	382
Astrolabe	2	452
Astronomical clock	2	463
photographic doublet	2	472
telescope	26	395
Astrophysical instruments	2	475
Cassegrainian telescope	26	395
Chronograph	2	463
Chronometer	17	646
Clock	2	463
	7	118
Collimating eyepiece	6	254
Compensation pendulums	21	504
Declination needle	8	566
Declinometer	8	566
Dip circle	9	138
Dipping needle	9	141
Equatorial	10	460
coudé	10	460
	17	593
telescope	2	466
Filar micrometer	2	462
Focal curve of achromatic telescopes	13	709
Galilean telescope	26	396
Gnomon	12	736
Gunter's quadrant	13	573
Gyroscopic compass	15	285
Heliometer	14	78
Heliostat	14	79
Hour-glass	14	443
Inclination compass	9	138
	9	441
Inclinometer	9	138
Lick telescope	26	396
Magnetometer	18	180
Meridian circle	2	464
	2	466
	18	675
Meteoroscope	6	254
Mural circle	19	598
Newtonian telescope	26	395
Orrery	21	10
Pendulum	21	504
Photo-chronograph	2	466
heliograph	22	7
Polar clock	22	291
Pyrheliometer	26	24
Reflex zenith telescope	26	398
Refracting telescope	17	402
	26	399
Riefler pendulum	21	505
Sector	24	521
Sextant	24	629
Sidereal clock	2	463
Sothic cycle	14	208
Sun dial	26	27
first historic	26	27
Spectroheliograph	2	477
	26	22
Spherometer caliper	13	709
Spirit level	2	464
Telegraph	17	646
Telescope	2	461
	2	472
	26	395
Terrestrial telescope	26	396
Transit instrument	2	464
micrometer	2	466
reducer	6	254
Universal prism field glass	26	397
Zenith sector	29	698
telescope	17	96
	29	698
tube	29	699

Biographies

UNITED STATES

Biographies — cont'd	Vol.	Page
Abbe, Cleveland	1	11
Abbott, Charles Greely	1	14
	2	479
	2	480
Adams, Walter Sydney	1	127
Aitken, Robert Grant	1	291
Bailey, Solon Irving	3	51
Barnard, Eward Emerson	2	460
	2	472
	3	263
Barnard, Frederick Augustus Porter	3	263
Bigelow, Frank Hagar	3	695
Bond, George Phillips	2	467
	4	209
Bond, William Cranch	2	459
	4	209
Boss, Lewis	4	290
Bowditch, Nathaniel	2	458
Brashear, John Alfred	4	417
	26	397
Brooks, William Robert	4	597
Brown, Ernest William	4	604
Burnham, Sherburne Wesley	2	460
	5	58
	7	360
Campbell, W. W	2	460
	2	480
	5	281
Cannon, Annie Jump	5	510
Chandler, S. C	2	471
	6	286
Chauvenet, William	6	368
Chase, Frederick Lincoln	6	342
Clap, Thomas	7	32
Clark, Alvan	7	39
	25	501
Clark, Alvan Graham	7	39
	17	178
Coffin, John Huntington Crane	7	212
Comstock, George Cary	7	454
Doolittle, Charles Leander	9	261
Doolittle, Eric	9	261
Draper, H	2	473
Draper, J. W	2	467
	9	312
Eastman, John Robie	9	513
Eichelberger William Snyder	10	25
Elkin, William Lewis	10	250
Ferguson, James	11	123
Fleming, Williamina P. S.	11	348
Flint, Albert Stowell	11	356
Frisby, Edgar	12	111
Frost, Edwin Brant	2	460
	12	124
Gillis, James Melvin	12	655
	20	1
Gould, Benjamin Apthorp	13	83
Hale, George E	2	460
	2	477
	13	633
Hall, Asaph	13	640
Harkness, William	13	709
	20	2
Harrington, Mark Walrod	13	723
Hill, George William	19	425
Holden, E. S	2	460
	14	315
Hough, George Washington	14	442
Hubbard, Joseph Stillman	14	463
Ibach, Lawrence J	14	615
Jacoby, Harold	15	592
Keeler, J. E	2	474
	16	332
Lane, J. Homer	16	714
	26	25
Langley, Samuel Pierpont	2	509
	16	721
Laves, Kurt	17	119
Loomis, Elias	2	459
	17	652
Lowell, Percival	2	480
	17	702
Maury, Mathew Fontaine	18	452
	20	1
Lyman, Chester Smith	2	476
	17	774
Mitchell, Maria	19	267
Mitchel, Ormsby M	2	459
	19	264
Mitchell, S. A	2	478
	17	178
	19	268

Biographies — cont'd	Vol.	Page
Mitchell, William	19	269
Michelson, Albert Abraham	2	475
	19	18
Moulton, Forest Ray	19	521
Newcomb, Simon	20	265
Newton, Hubert Anson	20	289
	24	743
Olmsted, Denison	20	669
Paine, Robert Treat	2	458
Peate, John	21	460
Peirce, Benjamin	21	474
Perrine, C. D	2	474
Pickering, E. C	2	460
	2	481
	22	63
Pickering, William Henry	22	67
Poor, Charles Lane	22	355
Porter, Jermain Gildersleeve	22	391
Pritchett, Henry Smith	22	611
Ritchey, G. W	2	473
	2	474
	23	537
Rittenhouse, David	2	458
	23	543
	27	6
Rogers, William Augustus	23	630
Rutherford, L. M	2	467
	2	473
	24	67
Safford, Truman Henry	24	104
Schaeberle, John Martin	2	460
	24	361
Schlesinger, Frank	24	379
Searle, George Mary	24	489
See, Thomas Jefferson Jackson	24	526
Skinner, Aaron Nichols	25	76
Stone, Ormond	17	178
	25	679
Swift, Lewis	26	132
Todd, David	26	666
Upton, Winslow	27	587
Walker, Sears Cook	2	459
	28	230
Watson, James Craig	29	109
Wilson, James	29	359
Winlock, Joseph	29	396
Woodward, Robert Simpson	29	500
Young, C. A	2	477
	29	649

FOREIGN

Biographies — cont'd	Vol.	Page
Abbe, Ernst	1	12
Abib	1	41
Acharya	3	608
Abney, Sir William de Wiveleslie	1	44
	2	477
Aboumaschar Djafar-Ibn Mohammed	1	340
Abraham Ibn Daud (David) Halevi	1	48
Abul-Wefa	2	457
Adams, John Couch	1	123
	24	743
Adar	1	130
Airy, George Biddell	1	290
	2	458
Al-Battani	1	330
	2	457
Albategnus	2	457
Albumazar, Djafar Ibn-Mohammed	1	340
Amici, Giovanni Batista	1	572
Anaximander	1	651
André, Charles	1	670
Andronicus of Cyrrhus	1	677
Anwers, Arthur	2	669
Arago, Dominique François	2	130
	2	457
Argelander, Friedrich Wilhelm August	2	195
Aristarchus	2	235
	7	25
Arrhenius Svante	2	328
Aryabhatta	2	372
Arzachel	2	373
Asten, Frederick Emil von	2	443
Autolycus	2	642
Azzarkal	2	692
Backlund, Johann Oskar	3	18
Bacon, John Mackenzie	3	24
Bailly, Jean Sylvain	3	53
Baily, Francis	3	54
Bainbridge, John	3	54
Ball, Sir Robert Stawell	3	93
Bayer, Johann	3	363
Becquerel, A. H	2	477
Beer, Wilhelm	3	429
Behaim, Martin	3	445
Bessel, Friedrich Wilhelm	3	586
	12	542
Bhaskara	3	608
Bianchini, Francesco	3	610
Biela, Wilhelm von	3	689
Bode, Johann Ehlert	4	143
Boguslawski, Palm Henri Louis von	4	156
Boscovich, Ruggiero Giuseppe	4	286
Bouvart, Alexis	4	356
Bradley, James	4	388
Brahe, Tycho	2	457
	2	468
	4	392
	7	356
	25	502
Brahmagupta	4	393
Brisbane, Sir Thomas MacDougall	4	545
Bruhns Karl Christian	4	629
Bugge, Thomas	4	699
Burckhardt, Johann Karl	5	33
Burg, Johann Tobias	5	36
Cagnoli, Antonio	5	145
Calippus	5	223
Carrington, Richard	5	672
Cassini De Thury, César François	5	711
Cassini, Giovanni Domenico	5	711
Cassini, Jacques	5	711
Cassini, Jacques Dominique	5	711
Cerulli, Vincenzo	6	227
Challis, James	6	254
Chacornac, Jean	6	242
Chappe D'Auteroche, Jean	6	299
Chisleu, Chislev or Kislev	6	570
Christie, Sir William Henry Mahoney	6	622
Clarke, Alexander Ross	7	46
Clausen, Thomas	7	63
Claxton, Thomas Folks	7	65
Clerke, Agnes Mary	7	90
Conon of Samos	7	534
Copernicus, Nicolaus	2	457
	6	77
	7	649
	11	195
Darwin, Sir George Howard	8	486
	19	426
Dee, John	8	574
Delambre, Jean Baptiste Joseph	8	606
De La Rue, Warren	2	473
	8	608
Delaunay, Charles Eugène	8	608
Delisle, Joseph Nicolas	8	623
Donati, Giovanni Battista	7	358
	9	255
Dreyer, John Louis Emil	9	334
Dupuis, Charles François	9	415
Eder, Joseph Maria	2	477
	9	581
Encke, Johann Franz	10	315
Engelhardt, Vassili Pavlovich	10	336
Eratosthenes	2	456
	7	25
	10	468
Eudoxus of Cnidos	10	565
Fáye, Hervé Auguste Etienne Albans	11	72
Fearnley, Carl Frederik	11	74
Fässenden, R. A	7	356
Firmicus, Maternus Julius	11	258
Flammarion, Camille	11	331
Flamsteed, John	11	332
Franklin, Adams	2	472
Galilei, Galileo	2	457
	12	237
	24	615
Galle, Johann Gottfried	12	243
	20	78
Gill, Sir David	12	654
Grubb, Sir Howard	13	503
Grubb, Thomas	13	503
Hadley, John	13	610
Halley, Edmund	13	648
Hansen, P. A	2	459
Herschel, Caroline L	14	150
Herschel, Sir John Frederick William	14	151
Herschel, William	2	457
	9	274
	14	151
	20	551
Hevel, Johannes	14	160
Hevelius, Johannes	14	160
Hind, John Russell	14	193
Hipparchus	2	456
	14	200
Horrocks, Jermiah	14	385
Huygens, Christian	14	533
Huggins, Sir William	2	479
	14	476
	20	551
Ibn-Junis	2	457
Janssen, Pierre Jules Cesar	15	617
	17	481
Johnson, Manuel John	16	173
Kepler, Johann	2	457
	4	393
	16	374
King, William Frederick	16	433
Kobold, Hermann Albert	16	503
Kreil, Karl	16	540
Lacaille, Nicolas Louis de	16	626
Lalande, Joseph Jérome le Français de	2	457
	2	459
	16	662
Lamont, Johan von	16	678
Laplace, Pierre Simon, Marquis de	2	458
	16	743
Lardner, D	2	458

Biographies — cont'd	Vol.	Page
Lassell, William	16	758
	20	78
Laugier, Paul A. E.	17	104
Laussedat, Aimé	17	113
Lemonnier, Pierre Charles	17	281
Leverrier, U. J. J.	2	459
	17	328
	20	78
Lilius, Aloisius	17	486
Lilly, William	17	487
Littrow, Joseph Johann von	17	525
Littrow, Karl von	17	525
Lockyer, Joseph Norman	2	477
	17	564
Loewy, Maurice	17	593
Lubback, John William	17	712
Madler, Johann Heinrich	18	102
Maskelyne, Nevil	18	378
Mason, Charles	18	379
Maxwell, Clerke	24	314
Méchain, Pierre François André	18	497
Michell, John	19	17
Moebius, August Ferdinand	19	290
Mouchez, Amédée Ernest Barthélemy	19	520
Newton, H. A.	7	356
Newton, Sir Isaac	2	457
	20	289
Nichol, John Pringle	20	312
Nostradamus (Michel De Notredame)	20	457
Nur-Ed-Din El-Betruji	20	500
Nyrén, Magnus	20	526
Œnopides	20	594
Olbers, Heinrich Wilhelm Matthäus	2	458
	20	642
Oriani, Barnaba	20	793
Partridge, John	21	356
Peurbach, George von	21	698
Piazzi, Giuseppe	2	458
	22	61
Picard, Jean	22	62
Pond, John	22	348
Proctor, Richard Anthony	22	631
Ptolemy	2	456
	22	752
Purbach, George von	21	698
Quetelet, Lambert Adolphe Jacques	23	84
Regiomontanus	6	77
	23	322
Römer, Ole	23	674
Rosse, William Parsons	23	707
Sacrobosco, Johannes de	24	98
Saros	24	305
Schaeberle, John Martin	24	361
Scheiner, Christolph	24	365
Schiaparelli, Giovanni Virginio	2	458
	7	356
Schiaparelli, Giovanni Virginio	15	534
	24	369
	24	744
Secchi, Angelo	15	534
	24	500
	25	498
Shackleton, Sir Ernest Henry	2	478
	24	635
Smyth, Charles Piazzi	25	141
South, Sir James	25	273
Stone, Edward James	25	677
Struve, Friedrich Georg Wilhelm von	25	742
Struve, Otto Wilhelm von	25	742
Thales	7	25
	26	486
Thompson, Henry	23	736
Thomson, Sir Joseph John	7	356
	26	584
Timocharis	2	456
Tisserand, François Félix	26	645
Ulugh Beg	2	457
	20	550
	27	265
Vico, Francesco de	28	65
Wolf, Max. F. J. C.	2	472
	7	360
Wolf, Rudolf	29	438
Zöllner, Johann Karl Friedrich	29	722

AUDITING AND ACCOUNTING

General		
Acceptance	1	69
	7	394
Accommodation	1	76
	7	394
bill	7	394
Account	1	77
	4	237
	7	394
Accountable receipt	7	394
Accountant	1	78
Account current	7	394
Accounting, municipal	19	567
Accounting	1	78
Account sales	7	394
Accounts, controlling	4	239
Assets	4	236
	7	394
Audit	2	535
	7	394
Auditing	1	80
Auditor	2	535
local	2	535
State	2	535
treasury	2	535
Balance	7	394
sheet	4	240
	7	394
Bill	3	703
	7	394
book	7	394
of entry	7	395
Bills payable and receivable	7	395
Blotter	7	395
Book-account	7	395
Bookkeeping	4	236
double entry	4	237
mechanical devices	4	243
modern improvements	4	243
single entry	4	241
Book value	7	395
Books, closing the	4	240
opening a set	4	239
used	4	238
Bought and sold notes	7	395
Budget	4	677
Budgets, American	4	678
city	4	680
county	4	679
foreign, city	4	682
national	4	681
national	4	678
State	4	679
Card Index ledger	5	597
Carrying charges	7	395
Cash	7	395
account	4	237
	7	395
book	4	238
Charge	7	395
Charges forward	7	395
Check book	4	239
Closing the books	4	240
Controlling accounts	4	239
Credit	4	237
	7	396
Debit	4	237
	7	396
Fiscal year	7	396
Flat	7	396
Fundamental equation	4	238

General — cont'd	Vol.	Page
Funds	7	396
Inventory book	4	239
Invoice book	4	239
Journal and journalizing	4	237
Ledger	4	238
card index	5	597
loose leaf	4	243
Liabilities	4	236
Loose leaf ledger	4	243
Municipal accounting	19	567
development of	19	567
history of	19	567
in the United States	19	567
objects of	19	567
rudiments of adequate system	19	570
State supervision	19	569
uniform	19	569
Notes payable register	4	238
Notes receivable register	4	238
Order book	4	239
Pass book	7	397
Post dated	7	397
Prime cost	7	397
Profit and loss statement	4	241
Purchase book	4	238
Purchases return book	4	238
Report form	4	241
Sales return book	4	238
Slip systems	4	243
Trial balance	4	239
Voucher system	4	243

AUTOMOBILES AND SELF-PROPELLED VEHICLES

General

Automobile	2	643
control equipment	2	646
engine	2	656
	15	225
fire insurance	2	666
statistics	2	666
history of	2	643
	2	663
industry	2	662
	21	387
industry of Canada	5	447
industry, statistics of	2	664
insurance	2	665
premium charges	2	665
liability insurance	2	665
oldest American	14	22
power equipment	2	644
starting equipment	2	646
Automobiles, American production	2	665
exports of	2	664
in war	2	666
Bearings, anti-friction	3	382
Brake drum	2	653
Brakes	2	653
Carburetor	2	646
	2	657
	5	595
	14	240
	15	241
American design	2	659
French design	2	658
German design	2	658
Carriages, steam	25	553
Chain-drive transmission	2	650
Chassis	2	644
	2	645
	6	348
Chauffeur	6	366
Clutch, multiple-plate	2	647
single-plate	2	647
Clutches	2	647
Connecting rods	2	661
Crankcase	2	661
Crankshaft	2	660
bearings, lubrication of	2	661
Creeping	15	100
Cylinder, sectional view of	15	247
Cylinders	2	659
Differential	2	650
Differential gear	9	106
Drive shaft	2	649
Electric trucks	2	648
Engine, automobile	2	656
	15	225
Engine cooling systems	15	235
Engine, Daimler	15	246
governing, methods of	15	236
internal combustion	15	224
	22	483
cooling systems	15	235
cyclic functions of	15	226
indicated efficiency and horse power of	15	229
main dimensions of	15	233
multi - cylinder arrangement	15	231
starters	10	345
starting of	15	238
timing of	15	237
Front axle, the typical	2	652
Fuels	15	238
gaseous	15	238
liquid, atomization of	15	240
Fuel tank, auxiliary	2	645
Gasoline	12	329
Gearbox, aluminum	2	649
Gears	12	350
Gearset, three speed	2	648
Internal gear drive	2	650
Ignition	2	661
	14	672
systems	15	237
wiring diagram	2	647
Krebs diaphragm	2	657
Lubrication	2	650
Lubricants	17	713
Magneto	18	130
Motor car bodies	2	654
Motor car cab	2	649
Motor car frame	2	644
Motor cars	2	643
	2	644
Motor, individual	22	479
Motor truck, body arrangement	2	655
chassis	2	654
arrangement	2	655
internal gear drive	2	656
Motor truck engine, general type	2	655
Motors in warfare	19	518
Motor trucks	2	643
	2	654
	19	517
Motor vehicles, American, exports of	2	665
number of	2	664
production of	2	665
Motor wagon chassis	2	654
Motor wagons	2	643
	2	654
Mufflers	2	661
Piston construction	2	662
Pistons	2	661
Pneumatic tire	23	740
inventor of	23	749
Power transmission	2	646
Radius rods	2	652
Rear axle drive in motor trucks	2	655
Rear axle, the typical	2	652
Rear axles	2	652
Rebound checks	23	265
Roller bearings	23	636
Rubber tires	23	744
Self-starters	10	345

General — cont'd	Vol.	Page
Shock absorbers	24	739
Silencers	2	661
Silent chains	24	810
Spark plug	15	237
Spiral bevel gear	2	650
Spring, cantilever	2	651
Springs	2	651
	25	459
Sprocket	25	460
Sprocket chains	25	460
Steam carriages	2	643
Steam trucks	2	643
Steering gear	2	652
Steering knuckles	2	652
Steering mechanism, typical	2	653
Storage battery, electric	10	121
Synmotor	26	747
Tank	26	243
inventor of	26	243
Tanks, German	26	244
Thrust rods	2	652
Tire, pneumatic	23	744

General — cont'd	Vol.	Page
Touring car, general arrangement of	2	654
Traction engine	26	745
Tractor	26	746
Caterpillar	26	747
Tractors, automobile	26	746
military	26	747
Transmission	2	648
electric	2	650
Entz	2	650
hydraulic	2	650
	14	548
motor truck	2	654
Universal joint	2	649
Valve mechanism	2	660
Valve, sleeve, diagram of	2	661
Valve terms	27	653
Valves	27	656
Vehicle springs	27	720
Vehicles, electric	10	146
steam	25	553
Vulcanization	28	195

General — cont'd	Vol.	Page
Wheels	2	653
Worm gear-sets	2	650
Inventors of Self-propelled Vehicles		
Benz, Karl	2	663
Blanchard, Thomas	2	663
	4	59
Cugnot, N. J	2	663
Daimler, Gottlieb	2	663
Dudgeon, Richard	2	663
Evans, Oliver	2	663
	10	592
Fisher, J. K	2	663
Ford, Henry	11	465
Gurney, Goldsworth	2	663
Hancock, Walter	2	663
Hills, F	2	663
James, William Henry	2	663
Roper, S. H	2	663
Swinton, Maj.-Gen. E. D.	26	243
Trevithick, Richard	2	663
	27	51

BANKING AND FINANCE

General	Vol.	Page
Acceptances	1	69
	8	292
Acceptor	8	208
Acceptor supra protest	7	394
Accounting. See Auditing and Accounting.		
Accumulated dividend	7	394
Acquittance	7	394
Administration, industrial	15	90
Aerarium	1	178
Agents de change	11	749
Aldrich-Vreeland Banking Act of 1908	8	182
Allocation	7	394
Allonge	7	394
Allotment certificate	7	394
American Bank Note Company	16	152
Amortization	1	584
	7	394
Amsterdam, Bank of	1	593
Annuity	2	1
Arbitrage	7	394
Argentina, national wealth	2	218
Assessment	2	421
	7	394
Assets	4	236
Assets and liabilities, statements of	5	462
Audit	2	535
Auditor	2	535
Australia Commonwealth, Bank of	2	605
Balance sheet	3	71
Banco	8	132

General — cont'd	Vol.	Page
Bank Act, Canadian	5	460
	5	461
	5	462
Bank acts	13	247
Bank, Agricultural and Industrial, Japanese	15	713
Bank, banks, bankers	3	146
Bank bill or bank draft	7	394
Bank Charter Act of 1844	13	245
Bank checks	3	202
	7	391
Bank circulation redemption fund, Canadian	5	463
	5	464
Bank credit	7	394
currency	8	312
deposits, guaranty of	3	205
for Savings in New York	3	189
holidays	3	148
note	7	391
	7	394
note issues	3	204
of Amsterdam	3	153
of Barcelona	3	153
	3	240
of British North America	5	460
	5	464
of Chosen	15	714
of England	11	214
	13	243
	13	244
of Formosa	15	713

General — cont'd	Vol.	Page
of France during the Great War	11	749
of Hamburg	3	153
of Japan	15	705
of New York	3	169
of North America	3	169
of Nova Scotia	5	462
of Russia	11	214
	24	48
of Saint George at Genoa	3	153
of Venice	3	153
organization, internal	11	747
organization and management	3	194
rate	7	394
supervision	3	196
and trust company advertising	3	203
Bankers' Associations in the United States	3	209
clearing house of London	13	244
Banking	3	151
co-operative	7	641
crises	13	247
facilities, foreign	3	160
international	3	160
institutions, benefits of	3	196
in the United States	3	168
operations	11	748
statistics	3	176
Banking and finance of:		
Argentina	2	216
Arkansas	2	258

General — cont'd	Vol.	Page
Australia	2	602
Bolivia	4	189
Brazil	4	439
British Columbia	4	556
Canada	5	459
	5	466
Chile	6	508
Colombia	7	282
Colorado	7	320
Connecticut	7	528
Costa Rica	8	43
Cuba	8	286
Delaware	8	611
	8	612
Denmark	8	681
Dominican Republic	9	245
Ecuador	9	573
Egypt	10	5
France	11	704
Georgia	12	486
Germany	12	599
Great Britain	13	243
Guatemala	13	519
Guiana	13	529
Haiti	13	627
Hawaii	14	2
Idaho	14	657
India	15	9
Indiana	15	34
	15	35
Iowa	15	298
Ireland	13	247
	15	313
Italy	15	545
Japan	15	700
	15	711
Kansas	16	295
Kentucky	16	368
Louisiana	17	682
Maine	18	146
Maryland	18	354
Massachusetts	18	405
Mexico	18	754
Michigan	19	24
Minnesota	19	203
Mississippi	19	244
Missouri	19	256
Montana	19	390
	19	391
Nebraska	20	27
Netherlands	20	90
Nevada	20	108
New Hampshire	20	129
New Jersey	20	141
New York	20	193
New York City	20	221
New Zealand	20	251
Nicaragua	20	304
North Dakota	20	422
Norway	20	439
Nova Scotia	20	464
Ohio	20	613
Oklahoma	20	637
Oregon	20	779
Panama	21	231
Pennsylvania	21	523
Peru	21	647
Porto Rico	22	402
Portugal	22	412
Prussia	22	718
Rhode Island	23	466
	23	467
Russia	24	48
Scotland	13	247
	24	432
Serbia	24	581
South Carolina	25	291
	25	292
Spain	25	330
Sweden	26	117
Switzerland	26	149

General — cont'd	Vol.	Page
Tennessee	26	423
Texas	26	463
Transvaal	27	12
Turkey	27	185
Uruguay	27	604
Utah	27	613
United States	3	168
	27	342
	27	374
	27	397
	27	423
Venezuela	27	731
Vermont	28	22
Victoria	28	71
Virginia	28	119
Washington	28	784
West Virginia	29	212
Wisconsin	29	420
	29	421
Bankruptcy	7	402
Banks	3	151
and co-operative societies, mutual	3	159
British joint-stock	13	244
central	3	156
colonial	11	713
discounting	11	713
functions of	3	155
land	24	48
land and estate	11	713
management of	3	195
Massachusetts land	16	691
municipal	3	160
mutual	3	188
national, American	3	194
national, Japanese	15	706
of issue, central	3	157
ordinary	15	714
postal	3	160
private	3	160
	3	181
	3	195
public loan	3	160
relation to the community	3	196
Russian, joint-stock	24	48
savings	11	713
	15	714
savings, Canadian	5	465
school savings	3	191
stock	3	188
Banque de France	11	712
	11	747
du Peuple, La	5	460
d'Affaires	11	713
Foncières	11	713
Barings liquidation	13	247
Bear	7	394
market	7	394
Belgic system	15	705
Bill and note brokers	4	575
Bill of credit	3	703
Bills of exchange, foreign	15	704
Bills of lading	7	393
Bimetallism	3	710
	17	92
Bland-Allison Act	3	712
Blank endorsement	7	395
Bleichröder's Banking House	4	76
Boer War Loan	11	214
Bonded debt	7	395
Bonds, industrial	4	211
investment	4	210
public utility	4	211
railroad	4	211
registered	7	398
and shares, deferred	7	396
Bonnet piece	4	220
Boom	4	246

General — cont'd	Vol.	Page
Bought and sold notes	4	324
Bourse	4	354
Bourse, La	21	309
British-Italian Corporation	13	247
Broad piece	4	567
Broker	4	575
	7	395
Broker's note	7	395
Brokers, stock	4	575
Building and loan associations	4	706
Bull	7	395
Bulls and bears	5	18
Business cycle	8	205
Called bond	7	395
Call loan	7	395
money	7	395
Canadian Bank of Commerce, The	5	461
Canadian Bankers' Association	5	460
	5	463
	5	464
Cancel	7	395
Capital	5	558
Capitalization of the Canadian railways	5	458
Capital, railway	23	176
Capitalist system	14	289
Cash	7	224
Cash credits	13	247
Cent	6	198
Certificate of deposit	7	395
Checks	6	370
	7	393
	7	395
Cheque	6	370
Chicago Clearing House	3	168
Circular notes	6	693
	7	395
Clay's Rags	3	174
Clearing house	3	166
	7	395
Clearing houses (Canada)	5	462
	5	464
	5	466
Clearing houses (Japan)	15	714
house, London Bankers'	3	166
system, British	13	246
Collateral loans of the Bank of France	11	749
Collateral security	7	395
Combined balance sheets	5	461
Commerce, history of	7	370
Commercial banks and discount houses	3	158
Commercial panic	27	424
paper	3	200
	7	395
Commission	7	402
Company of the Bank of the United States	3	168
Confederation	5	460
	5	465
Connecticut banking	7	528
Consols, or Consolidated Annuities	7	550
Control, financial	13	242
Corner	7	713
Corporal security, loan on	13	94
Coupon	8	112
Covering shorts	7	396
Credit	3	155
	7	396
agricole mutuel	3	160
economic and public	8	172

General — cont'd	Vol.	Page
establishments	11	713
Foncier (France)	3	159
	8	172
	11	713
instruments of	8	202
letter of	8	172
Mobilier of America	8	173
Mobilier (France)	3	159
	8	173
national	27	424
societies, municipal	24	48
Crises, economic	8	295
Cuñe writing	8	298
Currency bill of 1900	8	313
Cutting a melon	7	396
Daily exchanges	5	464
Darien scheme	8	475
Darmstädter Bank, The	8	480
Days of grace	8	520
	8	522
Debenture	8	543
Debt, bonded	7	395
perpetual	13	546
Debts, national, Australian	19	730
Austro-Hungarian	19	730
British	19	730
Canada	19	730
French	19	730
German	19	730
Italian	19	730
Japan	19	730
New Zealand	19	730
Russian	19	730
Turkish	19	730
United States	19	730
Debts of the world, national	19	728
Debts, national after World War	28	650
Debts, national, before the World War	28	650
Debts, redeemable	15	546
Delegation	7	396
Deposit	7	396
	8	703
Deposit currency	8	313
Deposits, savings bank	12	581
Depreciated money	7	396
Deutsche Bank	9	24
Development, rates of	23	177
Directors	9	143
Disagio	7	396
Disconto-Gesellschaft	9	154
Discount	9	155
Discounting operations, Japanese	15	704
Discount, rate of	11	748
Dishonor	3	203
	7	396
	9	164
Dividend	7	396
	9	198
Dividends of the Bank of France	11	749
Dollar Exchange	7	396
Domiciled	7	396
Dominion Note Act (Canada)	5	466
Dominion notes (Canada)	5	466
Double standard	9	274
	13	22
Drafts	3	202
	7	393
	7	396
	9	291
Dresden Bank	9	328
Drawee	3	203
Drawer	3	203
East India Company	8	5

General — cont'd	Vol.	Page
Emission institutions	15	547
Endorsee	3	203
Endorsement	3	203
Endorser	3	203
England, Bank of	11	214
	13	243
	13	244
Ex	7	396
Excess circulation, Canadian	5	463
Exchange	10	618
brokers	4	575
foreign	3	162
Exchanges for the clearing house	3	167
Exchanges, government regulation of	10	619
Expert examinations	3	197
Exports of merchandise	3	164
of securities	3	164
Extended	7	396
Farm Mortgage Bankers' Association	3	210
Fat loan	7	396
Federal Farm Loan Board	11	78
	11	79
Land Bank	11	78
	11	79
Reserve Act	3	180
	3	209
Reserve Agent	3	183
Reserve Banks	3	184
Reserve Board	3	167
Reserve System	3	162
	3	181
Finances, American (1775-1789)	27	342
(1789-1816)	27	374
(1816-1861)	27	397
(1861-1919)	27	423
Finances, Australian	2	602
	14	743
English	13	239
	13	260
Italian	15	545
Porto Rican	22	402
Swedish	26	117
First bank of the United States	3	170
banking system in Canada	5	459
Canadian bank charter	5	459
industrial trust	27	110
Five-twenties	11	305
Flat	7	396
Floating capital	7	396
Floating debt	7	396
Fondation Mazurel	13	95
France, banking system of	11	704
France, Bank of	11	747
France and the first national defense loan	19	730
Fraudulent preference	5	464
Free Banking Law, Canadian	5	460
Free banking system	12	42
Freedmen's Savings and Trust Co	12	48
French commercial and banking system	11	710
French loans, national	11	749
Fugger, House of	3	154
Fuggers, Bank of	12	149
Funding	12	163
Genoa, Bank of	12	399
Germany, money, banking and exchange	12	599
national wealth of	12	582

General — cont'd	Vol.	Page
Gilt edged securities	13	247
Girard's Bank	3	171
Giro	28	4
Gold and silver	7	371
Gold Conspiracy	13	14
production	13	22
reserves	13	246
reserve, central	5	463
standard	13	22
	19	346
Standard Act of 1900	3	182
standard system, Japanese	15	710
Goldsmiths' cash notes	13	243
Goldsmiths' note	7	391
Governmental indebtedness	11	214
Government notes, convertible	8	312
pawnshops in France	13	92
Savings Bank, Canadian	5	465
Gresham Law	3	710
	17	92
Hamburg, Bank of	13	634
Haute Banque	11	713
Hokkaido Colonial Bank, (Japan)	15	713
Holder	3	203
Holding companies capitalization	27	113
Hypothecation	7	397
Hypothec Bank of Japan	15	713
Imperial Bank of Germany	11	214
Income tax, proportional	22	756
Indication, letter of	6	693
Indorsement, qualified	7	397
Industrial Bank of Japan	15	713
Insolvency	15	166
Interest	7	397
	15	213
compound	7	395
rate of	5	465
International Monetary Conference	13	68
trade	11	213
Investment	7	397
bankers' associations	3	209
banking	3	165
and mortgage banks	3	159
Investments, railway	23	148
Japan, Bank of	15	712
banking system of	15	711
finance in	15	700
Kinsatsu Exchange Bonds, Japan	15	702
Lamb	7	397
Land credit and land credit institutions	16	694
Land credit establishments, French	11	713
Landschaften	3	159
	16	695
Latin Union	17	92
Legal tender	17	234
Act	3	179
notes	27	424
Legislation, financial	22	757
Liberty loans	28	648
Loan	17	551
bureaus	11	213
flotations	11	214
offices	27	342
Loans and investments	3	155
Loans, Austria-Hungary	19	730
	28	650
British war	19	730
French	11	749

General — cont'd	Vol.	Page
German	19	730
	28	649
Italian	19	730
	28	649
Liberty	28	648
Russian	28	649
United States	19	730
	28	648
Victory	28	648
Local finance	13	241
Lombards, Italian colony of	13	243
Lombard Street	17	617
London Goldsmiths	13	243
Long	7	397
Magasins généraux	11	713
Margin	7	397
Massachusetts Bank	3	169
Massachusetts, wealth, debt and taxation	18	404
Maturity	7	397
Medici banks of	18	568
Mercers' Company	13	461
Merchandise brokers	4	575
Merchandise, imports of	3	164
Mississippi bubble	19	247
Company	17	121
Monetary Commission of the United States		
Congress	19	344
conferences, international	19	344
conventions	19	345
Money	19	345
banking, exchange	12	599
depreciated	7	396
market	13	246
orders	7	393
Montreal Bank	5	459
	5	460
Monts-de-Piété	19	579
	21	429
Moratorium	11	713
on debts	11	213
Morris Plan	19	479
National banking system	3	177
bank regulations, Japan	15	706
	15	712
City Bank of New York	19	726
Clearing House	3	167
Currency Committee	3	171
debts of the world	19	728
	28	650
Farm Loan Association	11	78
	11	80
Negotiable instruments	20	46
promissory notes	3	202
Non-cumulative stock	7	397
Northern Securities Company	20	428
	27	111
Note issue, regulation of	11	748
Note issues	13	245
	13	247
Notes	7	393
Obligations	15	546
Old Nick's money	3	174
Organization and management, financial	15	90
Organization, industrial	15	90
Overdrawn	7	397
Panic	21	245
Panic of undigested securities	8	209
Paper, single and two-name	3	201
Paper currency	28	669
Par	7	397

General — cont'd	Vol.	Page
Pass book	7	397
Pawnbrokers	4	575
	21	429
Pawnbroking operations	13	94
Pawnshop	21	429
Pawnshops, responsibility of French	13	96
Payee	3	208
Payment, suspension of	7	398
Pension bonds, hereditary, Japanese	15	702
People's Bank of Moscow	24	48
Perpetuity	2	1
Philadelphia Saving Fund Society	3	189
Piker	7	397
Pinholed	7	397
Point	7	397
Pool	22	354
Pooling	22	354
Popular loans	19	730
Porto Rico banks	22	402
Postal savings banks	3	191
Postal transactions	11	713
Private bankers	13	244
Promissory note	7	391
	7	397
	22	654
Protest	3	203
Provident Institution for Savings in the Town of Boston	3	189
Public borrowing	22	757
Public debt of Italy	15	546
Public expenditures	22	754
economic effects of	22	754
protection	22	754
public works	22	754
Public finance	22	754
Canadian	5	466
scope of	22	754
Public stocks, Italian	15	539
Public utilities, franchise value	22	781
Puts	7	397
Pyramiding	7	397
Qualified endorsement	7	397
Quarter dollar	23	63
Raffeisen system	11	31
Redemption fund	15	707
Rediscounting	23	288
Reichsbank, Deutsche	23	328
Reserve	7	398
Reserve specie, accumulation of	15	704
Resources and liabilities	3	184
Rich Man's Panic	8	209
Royal Bank of Canada, The	5	461
	5	462
Royal Exchange of London	13	462
Russian State Bank	24	48
Safe	24	101
Safeguarding depositors	3	197
Savings banks	3	160
	3	188
Scalper	7	398
Schaaffhausen'scher, A., Bankverein	24	360
Scrip	7	398
	24	455
Second Bank of the United States	3	171
Secured creditor	7	398
Securities	7	398
imports of	3	164
Seller Four	7	398
Sérbian finances	24	581
Set-off	7	398

General — cont'd	Vol.	Page
Share	7	398
Shaving	7	398
Sherman Purchase Act	3	712
Ship brokers	4	575
Shoestring	7	398
Short	7	398
Short loan and commercial bills	3	162
Sight paper	7	398
Silver movement, the	3	713
Single gold standard	13	22
Sinking fund	7	398
Smart money	7	398
Sixteen to one	3	710
Social amelioration, expenditures for	22	754
South Sea Company	8	5
Specie payments	25	366
resumption	25	366
Spread	7	398
Standard of value, tabular	26	201
Standard Oil Trust	27	110
State Bankers' Associations	3	209
banking system	3	180
banks	3	195
indebtedness	27	459
Stock	7	398
Stock Exchange	11	213
Stock exchanges, German	12	502
Stock, non-cumulative	7	397
Stockholm, Bank of	25	661
Straddle	7	398
Sugar Trust in New York	27	110
Systematic examinations	3	198
Tax, proportional	22	756
Taxes, direct	9	143
inheritance	22	756
Tontine	7	398
Trial of the Pyx	3	153
Trust company	3	205
Trusts	27	108
control of	27	113
the growth of	27	113
magnitude of	27	113
Tyre, Bank of	27	246
United States Bank	15	576
mint in Philadelphia	4	252
Mortgage and Trust Company of New York	3	208
United States, finances of	27	342
	27	374
	27	397
	27	423
Liberty Loans	19	738
	28	648
Victory Loan	28	648
Units, economic	27	108
Usance	7	398
Usury	27	608
Value, standards of	13	13
	19	345
tabular standard of	26	201
Venice, Bank of	28	4
Wages, Iron Law of	8	205
Wall Street corners	28	234
War expenditure	11	214
Austria-Hungary	28	649
Belgium	28	649
Bulgaria	28	650
France	28	648
Germany	28	649
Great Britain	28	648
Colonies	28	648
Italy	28	649

General — cont'd	Vol.	Page
Turkey	28	650
United States	28	647
War finance, British	13	240
Washing	7	398
With exchange	7	398
World systems, types	3	157
World War, cost of	28	646
	28	647
	28	648
	28	649
direct costs of	28	646
	28	652
effect on currency	28	668
economic problems	28	645
financial problems of	11	212
gold reserve of principal belligerents	28	669
indirect cost of	28	646
	28	650
Liberty Loans	19	738
	28	648
national debts	19	728
	28	650
neutral nations, cost of war to	28	652
money cost of	22	754
	28	646
Yokohama Specie Bank	15	702
	15	712
	15	713

Biographies

UNITED STATES

Biographies — cont'd	Vol.	Page
Astor, John Jacob	2	449
Astor, William Backhouse	2	449
Austin, Oscar Phelps	2	562
Bacon, Robert	3	25
Belmont, August	3	493
Belmont, August (2d)	3	493
Biddle, Nicholas	3	686
Burton, Theodore Elijah	5	69
Caldwell, Alexander	5	188
Cannon, Henry White	5	511
Cannon, James Graham	5	511
Clews, Henry	7	100
Cooke, Jay	7	624
Corcoran, William Wilson	7	680
Cutting, R(obert) Fulton	8	343
Davidson, James Wheeler	8	504
Davis, Henry Gassaway	8	509
Dawson, Miles Menander	8	517
Drexel, Anthony Joseph	9	333
English, William Hayden	10	360
Eyre, Edward	10	684
Fargo, William George	11	19
Fair, James Graham	10	713
Fairchild, Charles Stebbins	10	717
Fish, Stuyvesant	11	266
Fisk, James	11	295
Gage, Lyman Judson	12	226
Girard, Stephen	12	663
Green, Hetty Howland Robinson	13	422
Green, Norvin	13	423
Griscom, Clement Acton	13	481
Guggenheim, Benjamin	13	527
Harriman, Edward Henry	13	723
Higginson, Henry Lee	14	177
Hill, James Jerome	14	188
James, Thomas Lemuel	15	606
Jesup, Morris Ketchum	16	40
Johnson, Thomas Loftin	16	180
Jordan, Conrad N	16	207
Kahn, Otto Hermann	16	277
Knox, John Jay	16	497
Lawson, Thomas William	17	154
Leiter Joseph	17	272
Leiter, Levi Zeigler	17	272
Loeb, James	17	591
Lorimer, William	17	663
McCurdy, Richard Aldrich	18	34
McMillan, James	18	83
Mackay, Clarence Hungerford	18	63
Mackay, John William	18	64
Marquand, Henry Gurdon	18	307
Martin, Bradley	18	336
Mellen, Charles Sanger	18	606
Merriam, William Rush	18	679
Miller, Charles	19	117
Millikin, James	19	127
Mills, Darius Ogden	19	128
Moffat, David Halliday	19	290
Moore, James Hobart	19	431
Moore, William Henry	19	434
Morgan, J(ohn) Pierpont	19	452
Morgan, John Pierpont (2)	19	453
Morgan, Junius Spencer	19	453
Morris, Robert	19	477
	27	342
Morton, Levi Parsons	19	490
Morton, Paul	19	491
Necker, Jacques	20	36
Nettleton, Alfred Bayard	20	97
New, John Chalfant	20	111
Norris, George Washington	20	407
Packer, Asa	21	91
Patten, James A	21	407
Patterson, Joseph	21	408
Payne, Henry Clay	21	433
Peabody, George Foster	21	438
Peabody, James Hamilton	21	439
Perkins, George Walbridge	21	600
Poor, Henry William	22	355
Ream, Norman Bruce	23	259
Reid, Daniel Gray	23	329
Roberts, George Evan	23	568
Ryan, Thomas Fortune	24	71
Sayre, Stephen	24	344
Schiff, Jacob Henry	24	369
Seligman, Joseph	24	542
Seney, George Ingraham	24	562
Sibley, Hiram	24	775
Smith, Isaac Townsend	25	121
Speyer, James	25	401
Stevens, John Austin	25	636
Tappen, Frederick Dobbs	26	264
Trask, Spencer	27	17
Vanderbilt, Cornelius	27	680
	27	681
Vanderbilt, George Washington	27	681
Vanderbilt, William Henry	27	681
Vanderlip, Frank Arthur	27	682
Villard, Henry	28	90
Warburg, Paul Moritz	28	696
Wells, Rolla	29	186
Williams, John Skelton	29	343
Willing, Thomas	29	348
Willis, H(enry) Parker	29	349
Willoughby, William Franklin	29	350
Windom, William	29	384
Yerkes, Charles Tyson	29	634

OTHER COUNTRIES

Biographies — cont'd	Vol.	Page
Aguado Alejandro Maria, Marquis de las Marismas del Guadalquivir	1	267
Avid, Sir John	2	678
Baring, Sir Francis	3	251
Baring, Sir Francis Thornhill	3	251
Baring, Thomas	3	252
Barker, Jacob	3	255
Beaverbrook, Sir William Maxwell Aitken	3	400
Bottomley, Horatio	4	319
Burn, Sir George	5	53
Cernuschi, Enrico	6	226
Crozat, Pierre	8	252
Defoe, Daniel	8	189
Evelyn, Sir George	26	201
Eynard, Jean Gabriel	10	684
Forget, Sir Joseph David Rodolphe	11	489
Goertz, George Heinrich de	25	661
Gresham, Sir Thomas	13	461
Hirsch, Maurice	14	204
Jecker, Jean Baptiste	15	766
Jones, Sir Lyman Melvin	16	201
Lafitte, Jacques	16	649
Law, John	17	121
Leguia, Augusto B	17	257
Lubback, Neville	17	712
Luzzatti, Luigi	17	767
MacDonald, Sir William Christopher	18	38
Merriam, William Rush	18	679
Montague, Charles	18	243
Mount Stephen, George	19	527
Neymarck, Alfred	20	294
North, Sir Dudley	20	408
Osler, Sir Edmund Boyd	21	21
Ouvrard, Gabriel Julien	21	56
Overstone, Samuel Jones Lloyd, Baron	21	59
Paterson, William	21	390
Pereire, Jacques Emile	21	575
Rhodes, Cecil John	23	471
Rothschild, Alfred Charles de	23	718
Shibusawa, Ei-ichi	24	708
Shortt, Adam	24	754
Smith, Henry Babington	25	119
Smith, Thomas, of Nettingham	13	243
Takahashi, Korekiyo	26	219
Taylor, Sir Frederick Williams	26	297
Wilson, Sir Charles Rivers	29	357

See also Currency; Economics.

BIOLOGY

General	Vol.	Page
Amœba	1	583
	22	694
Angiostomun	14	130
Animals	1	696
classification of	1	705
Animal flowers	1	696
	1	698
magnetism	10	184
Automatism	2	642
Bacillus aërogenes	20	523
Bacteria	22	205
Bathybius	3	339
Biology	3	720
	6	81
Biological laboratory	16	616
Survey, Bureau of	3	719
Bioplasm	3	722
Birds, plants attractive to	3	734
Cell	6	170
	22	217
of an onion root	22	225
of the pond scum	22	225
theory	6	170
Coloration, protective	7	324
Commensalism	21	288
Contents of a vegetative cell	22	205
Cytoplasm	1	630
Difference between plants and animals	1	696
Divisions within a cell	22	216
Ecology	9	555
Egg-tooth	9	728
Electro-biology	10	183
Environment	10	406
Family	11	2
Gastræa	12	333
Germ	12	497
Gordiacea	13	61
Karyoplasma	29	620
Laboratory, marine	16	616
Life	17	408
Mechanism and vitalism	18	527
Microbe	12	497
Nebular hypothesis	3	721
Nekton	20	63
Pasteur institutes	16	616
Petrotome	21	696
Phosphorescence in living organisms	21	794
Physical magnetism	10	184
Plankton	22	152
Plant	22	153
Plant cell	22	217
Primates	22	577
Protobathybius	3	339
Protoplasm	1	630
	22	48
	22	217
	22	691
Range	23	210
Salpa	24	197
Sarcodina	24	296
Teratology	26	440
Vegetation of the world, three periods of	21	141

Biogenesis and Ontogeny, Reproduction, Growth, Embryology	Vol.	Page
Acorns	24	529
Annual rings	22	223
Apogamy	2	63
Apospory	2	68
Asexual reproduction	1	645
	22	207
	22	240
Biogenesis	3	717
law of	14	718
Biogenetic law	23	268
Budding, reproduction by	25	429
Cell division	22	205
Check in vegetative growth	13	433
Chorda dorsalis	20	459
Cleavage	10	280
Cocoon	7	191
Cola nut	7	233
Corpospores	22	207
Cross-fertilization in animals and in man	8	235
Cross-pollination	4	461
Differentiation of sex	22	206
Egg	9	722
Eggs of amphibia	9	724
of birds	9	723
of crustacea	9	725
of fishes	9	724
of insects	9	725
of lower animals	9	725
of mollusks	9	725
of reptiles	9	724
Embryo	22	220
	24	529
nutrition of	10	281
Embryology	10	277
germ-layer theory	10	281
human	10	282
of plants	10	284
Embryonic tissue	22	215
	22	216
Epigenesis	10	278
	10	420
Epigyny	10	422
Epinasty	10	426
Evolution of sex	22	216
of the flower	11	393
Extra-embryonic membranes	10	281
Female's choice	24	631
Fertilization	10	280
in plants	11	144
Fig fertilization by insects	11	202
Fission	11	297
Floral modifications	11	398
Gametes	2	63
	22	216
Gametophyte	1	448
male	22	208
	25	432
Gastrula	10	280
Genetics	12	391

Biogenesis and Ontogeny, etc.— cont'd	Vol.	Page
Germ cells	10	279
plasm	12	498
Greenhouse plants	13	432
Heterogony	1	645
Hybridization	4	461
Hybrids, fertility of	14	535
Insect pollination	22	322
Intermarriage	15	224
Intussusception	15	273
Juvenile leaf	22	215
Karyokinesis	19	271
Longevity	17	640
Male gametophytes	22	208
Maturation	10	279
Membranes, extra-embryonic	10	281
Mesoderm	10	281
Method of propagation	13	433
Micellar theory	19	10
Micropyle	19	33
Mitosis	19	271
Monogony	1	645
Motile reproductive cells	22	207
Multiplication	24	296
Neuter	20	102
Nucleus pulposus	20	459
Nymphæa seeds	24	529
Ontogeny	20	696
Parthenogenesis	2	63
	21	352
Pine seedling	22	215
Plants, embryology of	10	284
Plant, life forces of the	22	160
Plants propagated from cuttings	22	216
recapitulation in	22	214
regeneration in	22	215
sex in	22	216
Pollen	11	392
Pollination	22	320
of flowers	11	393
Primary germ layers	10	280
Proterandry	11	398
Proterogyny	11	398
Prothallium	1	447
Pupa	23	23
Races, amalgamation of	15	418
Recapitulation	23	268
Regeneration	14	205
	23	319
Reproduction	22	49
	22	205
asexual	1	645
	22	207
	22	240
by swimming spores	22	216
Segregate fecundity	15	418
vigor	15	418
Sex, differentiation of	22	206
Sexual plants	22	208
relation in plants	5	262
reproduction	22	205
	22	206
	22	207
Spawn	25	364
Spermatozoon	25	401
Sperm nucleus	22	207

Biogenesis and Ontogeny, etc.— cont'd Vol. Page
Spontaneous generation. 25 431
Sporophyte, evolution of 25 432
Sterility of hybrids..... 14 536
Swimming spore..... 22 216
Wheat kernel..... 29 243
Zamia 22 216
Zoospores 22 216

Physiology

A-chlorophyll 22 18
Anabolism 1 601
1 631
B-chlorophyll 22 18
Blood 4 105
Blood, capillary circulation of..... 17 231
circulation, mechanics of..... 4 107
Capillaries 5 554
Cell sap..... 22 212
Change of function..... 6 288
Chemical processes of living matter..... 22 45
Chlorophyll 6 578
22 17
25 614
Chloroplasts 6 579
22 18
22 225
Chromatophores 6 631
22 225
Chromoplasts 22 225
Chromosome 6 633
Colors of flowers..... 11 393
Commercial silkworm... 25 7
Crude sap..... 22 220
Differentiation 9 106
Division of animal physiology 22 48
of labor..... 9 205
Ecdysis 9 541
Estivation 10 524
Flowers, colors of..... 11 393
Function 12 160
Functions of stems..... 25 614
Gastrula 10 280
Heliotropism 14 79
14 80
Honey and the honey stomach, formation of 14 354
Honey-bees, organs of smell and taste in..... 14 354
Honey, how made..... 14 355
Irritability 15 399
Labor, division of..... 9 205
Locomotion 17 565
Locomotion, method of.. 17 565
Metabolism 1 631
18 695
22 45
22 46
Metagenesis 18 396
Nutrition 22 48
of embryo..... 10 281
of farm animals.... 20 510
of man 20 515
Phototropism 14 79
Physiology 22 44
Pigment 22 81
Plant cells, pressure in. 22 212
Plants, food of..... 22 197
physiology of..... 22 211
Polymorphism 2 9
22 331
Stigma 25 646
Stigmata 25 646
Syndromes, endocrinous. 26 171
Tropisms 27 95

Bionomics and Evolution; Phylogeny Vol. Page
Accommodation 1 76
Adaptation 1 120
Amixia 15 417
Beagle 3 375
Bionomics 3 722
Bud sports..... 25 444
Cave animals..... 15 419
Climate and climatic species and varieties... 7 110
Competition 7 420
Convergence 7 609
7 610
Darwinian factor..... 15 417
Darwinian theory..... 8 486
14 255
Degeneration as a factor in evolution 8 596
Descent of man and selection in relation to sex 8 719
Development hypothesis. 9 36
Ecology 9 555
Environment 10 406
Environmental causation 14 255
Evolution 3 722
10 605
14 400
and variations of plants 22 161
factors of..... 15 417
in plants..... 22 205
22 207
mechanics of..... 18 524
of fishes..... 11 275
theory of..... 3 375
10 609
Extinction of species... 10 669
Floral modifications.... 11 398
Flower 11 390
evolution of..... 11 393
pollination of..... 11 393
Fluctuations 27 688
Fundamental unity of inheritance 15 417
Geographical separation. 15 417
Geological succession of organic beings..... 8 487
Germ plasm..... 29 174
Graft hybrid..... 14 537
Gynandromorphism 14 130
Hermaphroditism 14 130
Heterostyly 11 390
Homoplasy 14 348
Honey bees, life, history and social life of..... 14 355
Horse, evolution of the. 14 396
14 398
Hybridity in plants.... 14 536
Hydractinia 9 205
Immigrations, animal and vegetal 14 715
Imitation 14 709
Inbreeding 4 461
Independent generation. 15 417
Individual variation.... 22 162
Instinct 15 168
Interbreeding 15 417
Isolation 15 416
artificial 15 419
autonomic 15 418
chronal 15 419
conjunctional 15 418
cyclical 15 419
dimensional 15 418
endonomic 15 418
environal 15 418
fertilizational 15 419
geological 15 419
heteronomic 15 418

Bionomics and Evolution; Phylogeny — cont'd Vol. Page
impregnational 15 418
industrial 15 418
institutional 15 418
migrational 15 419
nidificational 15 419
potential 15 418
prepotential 15 418
protectional 15 418
reflexive 15 418
regressive 15 418
seasonal 15 419
structural 15 418
sustentational 15 418
transportational 15 419
Lamarckian factors..... 15 417
Lamarckism 16 667
Life of the Tertiary fossils 26 451
Mechanics of development 18 524
of evolution..... 18 524
Miotic 19 216
Missing link 19 228
Modifications, floral.... 11 398
Morphological arguments 8 487
Most primitive plants... 22 215
Mutations 14 125
27 688
Natural selection 8 487
19 769
doctrine of..... 14 255
Nature study 19 774
Neo-lamarckians 15 417
Origin of species..... 8 486
of species by means of natural selection 20 809
Pangenesis 21 244
Panmixia 21 247
Parallel development ... 22 206
Parallelism 21 283
Phylogeny 22 25
Physical environment upon human types, the effect of..... 14 255
Plants, determination of 22 216
evolution 22 216
geography 22 153
hybridity in 14 536
origin 22 216
sex in..... 22 216
Preformation 22 529
Principle of adaptive radiation 21 143
Problems involved in sexual selection 24 632
Racial generalization ... 15 417
Reflexive selection..... 15 417
Segregate adaptation ... 15 418
freedom 15 418
Sex in plants..... 22 216
Sexual selection..... 8 487
15 417
24 631
Selection, sexual theory of 24 631
social 15 417
Siamese twins..... 24 766
Species 25 367
differentiation of.... 24 296
origin of..... 8 486
origin of the..... 14 255
20 809
extinction of..... 10 669
Sport 4 461
14 125
Sports in plants..... 25 443
Struggle for existence.. 8 487
Symbiosis 26 159
Thremmatology 26 594

Bionomics and Evolution; Phylogeny — cont'd Vol. Page

Transformation, process of ... 15 417
Use and disuse ... 27 606
Variation ... 27 687
laws of ... 8 487
under nature ... 8 486
Weismannism ... 29 174

Heredity and Genetics

Alternation of generations ... 1 447
22 207
Atavism ... 2 488
Breeding ... 4 460
25 657
Crossbreeding ... 25 657
Fundamental law of inheritance ... 25 658
Genes ... 14 126
Genetics ... 12 391
Heredity ... 14 123
15 113
29 174
cytological view of ... 8 377
Hybridity ... 14 535
Hybridization, artificial. 14 535
Inbreeding ... 25 657
Mendelism ... 18 622
Mendel's laws ... 14 125
18 622
Pangenesis, hypothesis of ... 14 124
Reversion ... 2 488
28 447
of animals ... 23 446
of plants ... 23 446
Sex, inheritance of ... 14 126
linked inheritance ... 14 127

Histology and Anatomy, Cytology, Homology

Alternation cells ... 22 223
Amphivasal bundle ... 22 222
Anther ... 2 16
Cells, differentiation of. 22 205
22 206
Cork ... 22 219
Corky layers ... 22 220
Cuticle ... 22 220
Ectoderm ... 25 429
Endarch bundle ... 22 322
Endoderm ... 10 323
25 429
Endodermis ... 10 323
Endothelium ... 10 323
Epidermis ... 22 218
22 220
Exarch ... 22 221
Fibro-vascular bundles. 25 614
Flower anatomy, detailed ... 11 390
Flowers, structure of ... 11 392
Foliage, changes in ... 21 143
Globulins ... 12 719
Guard cells ... 22 218
22 219
Hermaphroditism ... 14 130
Histology ... 14 205
Homology ... 1 630
Homoplasy ... 14 348
Hookworm, anatomy and life history ... 14 364
Intercellular spaces ... 22 218
Internodal cells of chara 6 170
Isomorphism ... 15 421
Karyoplasm ... 1 631

Histology and Anatomy, etc — cont'd Vol. Page

Leaf gaps ... 22 222
structure of the ... 22 219
Leaves ... 17 202
Mesarch ... 22 221
Mesoderm ... 10 281
25 429
Mesophyll ... 22 220
Mestome bundles ... 22 219
Morphology ... 19 472
Nerium ... 22 219
Parenchyma ... 22 218
Petals ... 11 392
Physiology ... 21 655
23 44
26 166
Pistil ... 11 390
22 119
Pith, zone of wood surrounding ... 22 222
Plants, epidermal system of ... 22 218
morphological evolution of ... 22 204
structure of ... 22 217
Rays ... 22 222
Root ... 23 686
primary form of ... 23 686
structure ... 22 219
Sclerotic ... 22 219
Sepals ... 11 392
Serial homology ... 8 488
Sex, determination of ... 22 217
differences ... 22 217
Stamen ... 11 392
Stem ... 25 614
Sting ... 25 652
Stipules ... 25 653
Stomata ... 22 218
25 677
location of ... 22 218
Teratology ... 26 440
Tissue ... 26 646
cellular ... 22 218
conductive ... 7 484
22 219
fundamental ... 22 219
homogeneous ... 22 220
pneumatic ... 22 220
Tissues, minor structure of various ... 22 218
Vascular bundles ... 22 219
Venation ... 27 725
Water pores ... 22 219

Biographies

UNITED STATES

Agassiz, Louis ... 1 231
16 616
Andrews, Ethan Allen ... 1 624
Bailey, Vernon ... 3 51
Bigelow, Maurice Alpheus 3 696
Breed, Robert Stanley ... 4 459
Bristol, Charles Lawrence ... 4 547
Chaney, Lucian West ... 6 287
Chapin, Henry Edgerton 6 296
Coe, Wesley Roswell ... 7 199
Conn, Herbert William. 7 524
Coulter, Stanley ... 8 95
Davenport, Charles Benedict ... 8 496
Edwards, Charles Lincoln ... 9 707
Field, George Wilton ... 11 181
Fisher, Albert Kendrick 11 280

Biographies — cont'd Vol. Page

Gulick, John T ... 13 543
15 417
Herrick, Francis Hobart 14 146
Jayne, Horace ... 15 763
Kellicott, William Erskine ... 16 341
King, Helen Dean ... 16 430
Loeb, Jacques ... 17 591
Lutz, Frank Eugene ... 17 763
Martin, Henry Newell ... 18 337
Mayer, Alfred Goldsborough ... 18 464
Merriam, Clinton Hart ... 18 679
Minot, Charles Sedgwick 19 211
Moody, Agnes Mary (Claypole) ... 19 421
Needham, James George 20 38
Nelson, Julius ... 20 65
Nuttall, George Henry Falkner ... 20 523
Packard, Alpheus S ... 15 417
21 90
Raby, Noah ... 17 641
Sedgwick, William Thompson ... 24 524
Smith, Sidney Irving ... 25 127
Strong, Richard Pearson 25 740
True, Frederick William 27 103
Tyler, John Mason ... 27 233
Woods, Frederick Adams, 29 498

GREAT BRITAIN

Bakewell, Robert ... 3 62
4 460
Balfour, Francis Maitland ... 3 80
Bastian, Henry Charlton 3 321
Dallinger, William Henry ... 8 419
Darwin, Charles Robert. 8 485
14 124
14 251
17 603
19 769
Douglas, David ... 9 278
Galton, Sir Francis ... 12 252
14 125
Geddes, Patrick ... 12 354
Huxley, Thomas Henry. 14 532
15 417
Lawrence, Sir William ... 14 251
17 147
Lubbock, John ... 17 711
Miall, Louis C ... 19 7
Parr, Thomas ... 17 641
21 342
Roget, Peter Mark ... 23 631
Romanes, George J ... 15 417
23 651
Wallace, Alfred R ... 15 417
19 769
28 235

OTHER COUNTRIES

Albrecht, Peter ... 17 641
Bichat, Marie François Xavier ... 3 679
14 205
Czarten, Petraz ... 17 641
Douglas, Gurgen ... 17 641
Driesch, Hans ... 9 335
Ehrenberg, Christian Gottfried ... 10 24
Fabre, Jean Henri ... 10 694
Haeckel, Ernst ... 13 611
15 417
Lamarck, Jean Baptiste, P. A. de M ... 16 666

Biographies — cont'd	Vol.	Page
Leuwenhoek, Antonius van	17	231
McMurrich, James Playfair	18	84
Mendel, Johann Gregory	18	621
Mesmer, Friedrich Anton	10	183
	18	686
Murray, Sir John	19	611
Pliny the Elder	11	261
	22	249
Schwann, Theodor	6	81
	24	409
Spallanzani, Lazzaro	6	81
	25	342
Surrington, Joseph	17	641
Vries, Hugo De	9	44
	15	417
Wagner, Moritz	15	417
	28	209
Wasmann, Erich	28	799
Weismann, August	14	124
	15	417
	29	173
Wright, Robert Ramsay	29	570
See **Botany; Ethnology and Anthropology; History—Archæology; Medicine; Zoology.**		

BOTANY

General

Botany	4	307
aboriginal	4	311
Botanicorum facile princeps	4	611
Brownian movement	4	611
Brunonian movement	4	611
Ethnobotany	4	811
Family	11	2
Flora	11	362
Genus	12	404
Host	15	103
Largest tree in the world	27	36
Microtome	19	38
Monochlamydeæ orders	9	86
Monotypic species	22	161
	22	162
Order	20	753
Phyla of the vegetable system	22	163
Phyllotaxis	22	24
Plant	22	153
Plants, classification of	22	163
Primary division	22	163
Seed plants	24	527
Taxonomy in plants	26	295
Vegetable kingdom	22	163
See also **Biology.**		

Structure and Form of Plants (Plant anatomy and morphology)

Achene	1	87
Achenium	1	87
Æciospores	22	171
Aerenchyma	1	170
Aigrette	1	272
Air-cells	1	285
Akene	1	87
Aleupone	1	360
Amphiphloic siphonostele, the	22	221
Anatomy	4	307
Anisophylly	1	714
Antheridium	2	16
	22	217
Aralia papyrifera	22	121
Archegonium	2	166
Axil	2	682
Bark	3	254
Base	3	301
Bass	3	320
Bast	3	320
Bast fibres	11	166
Blepharoplast	4	79
Bloom	4	115
Bract	4	383
Branch	4	410
Bud	4	671
	7	409
Bulb	4	716
Bunch grasses	22	157
Bunt	5	26
Calisaya bark	5	223
Calyx	5	242
Cambium	3	320
	5	245
	22	215
	22	323
	25	614
Capsule	5	573
Carotin	5	650
Carpel	5	652
Carpophore	5	660
Caudex	6	120
Cell	8	375
	22	164
Cellulose	11	165
Centrosome	6	215
Chemistry of plant life	22	213
Chlorophyll	6	578
Chloroplasts	6	579
	22	168
Chromosomes	1	448
	6	633
	11	144
	14	124
Cirrus	6	697
Climbers	22	157
Collateral	22	222
Composition of plants	1	243
Cone	7	485
Corolla	7	717
Corona	7	718
Corymb	8	31
Cyme	8	365
Cytology	8	375
Dermatogen	22	220
Dichotomous	9	78
Dichotomy	4	410
	9	78
Diclinous	9	85
Dicotyl stem	22	222
Dissepiment	9	170
Distinction of forms	22	157
Double flowers	9	273
Drupe	9	354
Duramen	9	416
Ectophloic siphonostele	22	221
Endarch siphonostele	22	222
Endodermis	10	323
Epigyny	22	182
Etiolation	10	554
Exogenous buds	25	614
Fibrovascular bundle	11	165
Filament	11	204
Filament of oscillatoria	22	164
of spirogyra	22	164
of uronema	22	164
Fibre	11	165
Flower, diagrammatic section of	22	320
Frond	12	121
Fruit of a puff ball	22	172
Fumitory	12	159
Gemmules	12	363
Globulins	12	719
Glœosporium (vertical section through)	22	172
Grasses	22	157
Hadrome	22	219
Haustoria	19	55
	23	686
Herbs	22	157
Hybrids	22	323
Hypha	22	218
Hypocotyl	14	607
Hypodermis	14	608
Hypogyny	22	182
Inflorescence	15	123
Infructescence	15	123
Internode	15	267
Involucre	15	288
Juvenile forms	16	270
Leaf structure, the	22	220
Leaves	17	202
Lenticel	17	291

Structure and Form of Plants — cont'd	Vol.	Page
Leptome	22	219
Leucoplasts	22	225
Lignin	17	435
Liverworts	22	157
Lycopsida	22	222
Medulla	18	590
Megasporangium	22	215
Mesocarpus, chloroplast	6	579
Metaxylem	22	221
Micellæ	19	10
Microgametophyte	22	177
Microsome	19	38
Microsporangium	19	38
Node	20	388
Origin of forms	22	157
Ovilate cone	8	357
Ovule	21	63
Palea	21	138
Paleæ	21	138
Palisade cells	21	206
Pappus	21	270
Parenchyma	21	206
	21	297
Parts of a seed	24	528
Peloria	21	488
Pepper brand	5	26
Perianth	21	583
	27	240
Periblem	22	220
Perigyny	22	182
Peristome	22	175
Petal	21	655
Petiole	21	672
Phloem	22	220
	25	614
Pistil	22	119
Pith	22	121
Plant movements	22	212
Plants, physiology of	22	211
Plants, vascular anatomy of	22	220
Plastids	6	579
	22	225
Plerome	22	220
Polystele, the	22	221
Polytomy	4	410
Primary phloem	22	222
zylem	22	221
Process	22	627
Prosenchyma	22	218
Prothallium	2	63
Protoplasm	11	165
Protoxylem	22	221
Pseudo-fibres	11	166
Pteropsida	22	222
Pycniospores	22	171
Pyrenoids	6	579
Raceme	23	107
Ramularia, spore-bearing threads of	22	172
Rhizome	23	465
Ringless fern, spore-bearing leaflet of	22	174
Rootstock	23	465
Secondary-xylem	22	222
Seed coats	24	529
Shrubs	24	759
Smut ball	5	26
Snapdragon, the	22	322
Solenostele	22	221
Sporangia	11	131
Sporangium	22	45
Spore-bearing threads of Ramularia	22	172
Sporidium	22	171
Sporophylls, the	22	179
Stigma	25	646
Sting	25	652
Structural fibres	11	166
Surface fibres	11	166

Structure and Form of Plants — cont'd	Vol.	Page
Suture	26	104
Sympodia	4	410
Synangia	22	175
Thorns and spines	26	588
Thyrse	26	605
Tomentum	11	166
Torus	11	392
Trichome	27	54
Tuber	27	120
Urediniospores	22	171
Variations of seed coats	24	529
Vegetable fibre	11	165
histology	14	205
Venation	17	204
Vetches	22	157
Winters bark	29	403
Wood	29	475
Woody fibre	11	165
Xylem	22	220
	25	614
Zygomorphy	22	182

Organic processes and function in Plants (Plant physiology)

	Vol.	Page
Abortion in plants	1	46
Aerotropism	1	194
Aldrovandra	5	643
Allogamy	1	423
Alternation of generations	22	240
Anemophilous	22	320
Anemophilous plants	8	231
Anemophily	11	393
Anime	1	714
Antennaria alpina	21	352
dioica	21	352
Apheliotropism	2	56
Aphydrotropism	2	57
Apogeotropism	2	63
Archegonium	22	217
Asparagin	2	401
Asparagine	2	401
Bees in cross-fertilization of plants	14	356
Bladderwort	4	51
	5	643
Blastophaga	5	571
Budding	4	676
Butterwort	15	160
Calcium	22	198
Caprification	5	571
Carbon	22	197
Carnivorous plants	5	643
Catchfly	6	47
	22	322
Chara crinita	21	353
Chloroplast	6	579
Chromatophores	6	579
Circumnutation	6	695
Color in plants	7	314
Conduction	7	484
Conjugation	7	522
Cross-fertilization	8	230
Cross-pollination	22	321
Cuttage	8	342
Cutting	8	344
Cytase	8	374
Darlingtonia	5	643
Deciduous	8	559
Dichogamy	9	78
Dimorphic plants	8	232
Dionoæ	5	643
Dioon	22	321
Endosmosis	21	22
Entomophilous plants	8	231
Entomophily	11	393
Epithem	10	437
Estivation	10	524
Etiolin	10	554

Organic processes in Plants — cont'd	Vol.	Page
Everlasting	21	352
Fecundation	8	353
Fertilization	8	376
	11	144
	22	320
Flowers, fertilization of, by birds	11	395
Foods, unavailable	22	197
Fructification	8	353
Fruit	12	128
Gametes	11	144
	22	167
Gametophyte	2	63
Gametophyte, reduction of	12	269
Generative cell	12	378
Geotropism	12	491
Germination	12	622
Germination tests	24	528
Gland	12	680
Hawk weed	21	353
Heliotropism	14	79
Hieroclum	21	353
Hydathodes	14	537
Hydrogen	22	197
Hydrophilous plants	8	231
Hydrotropism	14	589
Insectivorous plants	15	160
Interval between pollination and fertilization	22	320
Latex	16	762
Leaf growth	17	204
Leucoplasts	6	579
Magnesium	22	198
Marsilia	21	352
Meadow rue	21	352
Megaspores, the	22	179
Metastasis	18	711
Milkweeds	22	322
Nectar	20	38
Nepenthes	5	643
Nitrate of soda	22	198
Nitrogen	22	198
Osmosis	21	22
Oxygen	22	197
Phosphorus	22	197
	22	198
Phototropism	14	79
Physiological functions	22	197
Physiology	4	307
Pinguicula	5	643
Pitcher-plants	5	643
Plant foods, available	22	197
Plants, food of	22	197
Plants, pollinated by insects	22	321
Plasma	22	223
Pollen, prepotent	8	232
Pollination	22	320
Potassium	22	197
Rheotropism	23	457
Sap	24	290
Sarracenia	5	643
Sarracenia purpurea	24	306
Sarracenet	24	528
Seeds		
Self-pollination, prevention of	22	321
Self-sterile plants	8	235
Silene antirrhina	22	322
Spirogyra	21	353
Spores	1	447
	22	158
	22	171
Sporidia	2	63
Sporophyte	22	198
Sulphur	5	643
Sundew	22	171
Teliospores	21	352
Thalictrum purpurescens	8	232
Trimorphic plants		

Organic processes in Plants — cont'd	Vol.	Page
Utricularia	5	643
Venus' fly-trap	5	643
Water-fertilized plants	8	231
Water pollination	22	321
Wax, vegetable	29	119
Wind-borne microspore	22	177
Wind pollination	22	321

Spore-producing (or Cryptogamous) plants, Bacteria, Algae, Fungi, Lichens, Liverworts, Mosses, Ferns and related families

	Vol.	Page
Acarospora	17	397
Acetabulum	22	166
Achlya	22	167
Adder-tongue ferns	11	132
	22	174
Adiantum	2	408
	11	133
	22	175
Agaric	1	230
Agaricaceæ	12	172
	26	658
Agaricales	22	172
Agaricus campestris	12	172
	19	623
	22	172
	24	292
Albugo candida	22	201
Alga	22	225
Algæ	1	381
	22	164
	22	167
	22	166
	22	315
Allium fistulosum	6	667
Amadou	1	461
Amanita	1	462
	22	172
Amanita arvensis	19	623
Amanita muscaria	12	173
	19	623
phalloides	12	173
	19	623
Amanitin	1	463
Andreæa	22	174
Andreæales	22	174
Angiopteris	22	175
Angiosperms	2	68
	21	352
	24	527
	24	529
Anthoceras	11	135
Anthoceros	22	174
	25	433
Anthocerotaceæ	17	539
Anthocerotales	22	174
Arachnoidiscus	9	74
Archegoniates	11	131
Archidium	22	174
Archiplastideæ	22	164
Aroids	22	166
Ascompyceteæ	17	398
	22	169
	22	207
Ascomycetes	2	381
Ascophyllum	22	168
Aspergillales	22	171
Aspergillus	10	583
Asplenium	2	408
	11	134
	22	175
Auricularia	22	173
Auriculariales	22	173
Azolla	11	134
Bacillarioideæ	22	165
	22	706

Spore-producing plants, etc.— cont'd.	Vol.	Page
Bacteria	12	165
	22	186
Bacteriales	22	164
Badderlocks	3	32
Bangia	22	168
Bangiales	22	168
Bangioideæ	22	168
Barm	29	620
Basidiomyceteæ	17	398
	22	172
	22	207
Beard moss	3	381
Beefsteak fungus	19	624
Bird's-nest fern	11	133
Black molds	12	167
Bladder fern	11	134
Blood-rain	4	112
Blue-green algæ	22	152
Blue mold	22	171
Boletus	4	180
Boletus edulis	19	624
Boston fern	11	133
Botrychium	4	314
	11	132
	22	175
Botrychium lunaria	4	314
	24	292
Botrychium virginicum	4	314
Botrydium	22	166
Botrytis	4	314
	22	173
Botrytis infestens	4	314
Bracken	4	408
Brake	4	408
Brand fungi	22	171
Bread	17	399
Bremia lactucæ	19	55
Bryales	22	175
Bryophyta	4	309
	17	538
	22	173
	22	175
	22	176
	26	295
Bryophytes	11	131
	25	614
Bryopsidales	22	166
Bryum	22	174
	22	175
Bulgariaceæ	17	398
Byssus lolithus	28	106
Calamariales	22	176
Calamarineæ	22	176
Calamites, the	22	176
Calamophyta	22	176
Caliciales	22	170
Calvatia	22	172
Calyptra	5	242
Cantharellus cibarius	19	623
Caprinus atramentarius	19	623
micaceus	19	623
Carbo	9	430
Carpomyceteæ	22	169
	22	207
Carpophyta	17	396
Caulerpa	6	578
	22	166
Cedar-apples	6	161
Ceramiales	22	169
Ceratopteris	11	133
Cercospora	22	173
Chætophorales	22	165
Champignon	6	271
	19	624
Chanterelle	6	292
Chantrelle	19	623
Chara	6	301
	8	376
	22	166
Characeæ	6	301

Spore-producing plants, etc.— cont'd.	Vol.	Page
Charales	6	303
	22	166
Cheiroglossa palmatia	11	132
Chlamydomonas	22	206
Chlorophyceæ	17	396
	22	164
	22	205
Chondrus	6	588
Chondrus crispus	6	588
	22	169
Chorda	22	167
	22	172
Christmas fern	11	133
	11	134
Chroococcales	22	164
Cibol	6	667
Cibotium	6	667
	11	134
	22	800
Cicotium barometz	6	667
Cinnamon fern	6	687
	11	132
Cladonia	22	170
Cladoniaceæ	17	398
Cladonia rangiferina	17	399
	23	333
Cladophora	22	166
Clavaria	7	64
Claviceps	22	171
Climacium	22	175
Climbing fern	7	112
Club moss	7	138
	11	135
	22	177
Codium	22	166
Coleochætales	22	165
Coleochæte	22	168
Collemaceæ	17	398
Conferva	7	494
Confervoideæ	22	164
Conjugatæ	6	578
	22	165
Conjugate algæ	22	165
algæ phylum	22	206
Common stinkhorn	22	172
Coprinus comatus	19	623
Corallina	22	166
Cordyceps	7	690
Cryptogamæ	4	309
Cryptogamous plants	8	266
Cryptogams	8	266
Cryptonemiales	22	169
Crystalworts	22	173
Curly-grass	11	133
Cutleriales	22	167
Cyanophyceæ	8	350
Cyathea	8	351
Cyatheaceæ	6	667
	11	133
Cycadofilices	11	135
Cycathea medullaris	8	351
Cyclosporeæ	22	168
Cylindrosporium padi	22	254
Cystopteris	8	374
Cystopus candidus	19	55
Dachyma cocus	27	128
Damping-off	8	433
Danæa	22	175
Davallia	11	133
Death cup	12	173
Dennstædtia	11	134
Desmidiales	22	165
Desmidieæ	9	74
Desmids	22	165
Devil's aprons	22	167
Diatomeæ	9	74
Diatoms	9	74
	22	165
Dicranopteris	11	133
Dictyoneuron	22	167
	22	164

Spore-producing plants, etc.—cont'd.	Vol.	Page
Dictyota	22	168
Dictyotales	9	90
	22	167
Dictyotineæ	22	167
Disc lichens	22	170
Discomycetales	17	397
Downy mildews	12	166
	22	167
Dryopteris	9	366
	22	175
Dryopteris filis-mas	11	128
	11	134
noveboracensis	11	134
spinulosa	11	134
Dry rot	9	362
Dyer's moss	9	452
Ectocarpales	22	167
Edible fungi	12	172
Emetic russula	12	173
Entomophthora	22	167
Entomophthorales	10	403
	22	167
Equisetales	22	176
Equisetinæ	11	134
	22	176
Equisetum	4	79
	22	176
	23	780
hiemale	23	780
Ergot	10	473
of rye	22	171
Erysiphaceæ	12	168
	22	171
Erysiphæ graminis	19	55
Eumycetes	4	309
	10	575
Euphyceæ	4	309
Eupodiscales	22	165
Eurotium	10	583
Eusporangiatæ	11	132
	22	175
Exoascales	22	170
Exoascus	22	170
Exobasidiales	22	173
Fairy ring	19	624
Fern	2	63
	22	175
Fern, male	11	128
Ferns and fern allies	11	131
Field horsetail fern	11	134
Filamentous water flannels	22	166
Filicinæ	11	132
Filix fragilis	11	134
Fistulina hepatica	19	624
Floating fern	11	133
	22	176
Florideæ	22	168
	22	169
Flowering ferns	11	132
Fly fungus	22	167
Fly mushroom	12	173
Fomes	22	173
Fontinalis	22	175
Fruit of a toadstool	22	172
Fucaceae	15	543
Fucales	22	168
Funaria	22	175
Fungi	12	164
	22	157
	22	167
	22	170
	22	173
	22	186
Fusarium	22	173
Gall fungi	12	165
Gasteromycetales	17	399
Geaster	22	172
Giant kelp	22	167
	22	215
Gigartinales	22	169

Spore-producing plants, etc.—cont'd.	Vol.	Page
Glaucocystales	22	164
Glaucocystis	22	205
Gleicheniaceæ	11	133
Glistening coprinus	19	623
Gracilaria	22	169
Grape ferns	11	132
Graphidaceæ	17	398
Green felts	22	166
Green slimes, the	22	164
Grimaldia	22	172
Ground pine	11	131
pine plant	22	176
Guignardia	22	170
Gulfweed	13	543
	22	168
Gymnoascea	29	620
Gymnosporangium	22	201
Gyrophora esculenta	17	399
Hartford fern	11	132
Hawaiian tree ferns	11	134
Hay fern	11	134
Helvellales	22	170
Hepaticæ	4	309
	17	538
	22	173
Herbarium mold	10	583
Holoplastideæ	22	164
Horse mushroom	19	623
Horsetail	22	176
Hydrodictyon	14	561
Hymenogastrales	22	172
Hymenomycetales	17	399
Hymenophyllum	11	134
Hypnum	22	175
Hypocreales	22	171
Hypodermataceæ	17	398
Hysteriaceæ	17	398
Hysteriales	17	397
	17	398
	22	176
Hysterographium	22	170
Iceland moss	14	629
Ink cap	19	623
Isoetaceæ	11	134
Isoetales	22	175
Isoetes	22	174
	22	175
Isosporous	22	176
Japanese fern-balls	11	133
Jew's ear, common	22	173
Joint rushes	22	176
Jungermannia	22	174
Jungermanniaceæ	17	539
Jungermanniales	22	174
Kelps	22	167
	22	215
Knotty rockweed	22	168
Laboulbeniales	22	170
Lactarius deliciosus	19	624
Lady fern	16	644
Laminaria	22	167
Laver	22	168
Lecanora	9	452
Lecanorales	22	170
Lecanora tartarea	2	168
Lecidiaceæ	17	398
Lepidodendrales	22	177
Lepidodendrineæ	22	177
Lepidophyta	22	176
Lepiota naucina	19	623
procera	19	623
Leptopteris	11	134
Leptosporangiatæ	11	132
	22	175
Leskea	22	175
Lessonia	22	167
Lichenes	4	309
Lichens	12	169
	17	396
	22	157
	22	170

Spore-producing plants, etc.—cont'd.	Vol.	Page
Little club moss	22	176
Little earth stars	22	172
Liver fungus	19	624
Liverworts	17	538
	22	172
	22	173
	22	174
Loxsoma	11	134
Lycoperdales	22	172
Lycoperdon giganteum	19	624
	22	172
Lycopodiaceæ	11	134
Lycopodiales	22	176
Lycopodinæ	11	134
Lycopodineæ	22	176
Lycopodium	22	176
Lycopods	22	176
Lygodium	11	132
Macrocystis	22	167
Maidenhair fern	11	133
Male fern	11	134
Manna rain	17	399
Marasmius oreades	19	624
Marattia	22	174
	22	175
Marattiaceæ	11	132
Marattiales	22	175
	22	177
Marchantiaceæ	17	539
	22	174
Marchantiales	22	173
Marsilia	11	132
	22	176
Marsiliaceæ	11	134
Marsiliales	22	175
Matoniaceæ	11	132
Matteuccia	11	133
Maydis	9	430
Melanconiales	22	173
Melanogaster variegatus	27	104
Meliola camelliæ	20	727
Mermaid's stings	22	167
wineglasses	22	166
Merulius	9	362
lacrymans	9	362
Microsphæra	22	171
Microsporales	22	165
Mildew	19	55
	22	171
Mnium	22	175
Mold	22	167
	22	171
	22	173
Moniliales	22	173
Monospora	29	620
Moonwort	19	427
Morchella esculenta	19	624
	22	170
Morels	19	624
Moss	19	508
	22	157
	22	174
Mossworts	22	173
Mucor	21	353
	22	167
Mucoraceæ	12	167
Mucorales	22	167
Musci	4	309
	17	538
	22	174
Muscineæ	17	538
Mushroom	12	172
	19	623
Mycorriza	19	658
Myxomycetes	4	309
Myxophyceæ	22	164
	22	205
Myxophyta	4	309
Myxothallophyta	4	309
Naviculales	22	165

Spore-producing plants, etc.—cont'd	Vol.	Page
Neckera	22	175
Nectria	22	171
Nemalion	22	169
Nemalionales	22	169
Nephrodium molle	2	63
Nephrolepis	11	133
Nereocystis	22	215
Nidulariales	22	172
Nitella	22	166
Nostoc	22	164
Oedogoniales	22	165
Old man's beard	22	170
Ophioderma	11	132
Ophioglossales	22	175
Ophioglossum	11	132
	22	174
	22	175
Ornithopteris	11	133
Orthotrichum	22	175
Oscillatoria	22	164
Oscillatoriales	22	164
Osmunda	11	132
	21	22
cinnamomea	6	687
regalis	21	22
Ostrich fern	11	133
	21	87
Pallaceæ	21	207
Pannariaceæ	17	398
Parasol mushroom	19	623
Parmeliaceæ	17	398
Patellariaceæ	17	398
Pathogenic fungi	12	173
Peat moss	22	174
Pellæa	11	134
Penicillium	22	171
Perisporiales	22	171
Peronosporaceæ	12	166
Peronosporales	22	167
Peronospora schleideniana	19	55
Pertusaria	17	397
Peziza	22	170
Pezizaceæ	12	169
Pezizales	17	398
	22	170
Phacidiales	22	170
Phæophyceæ	21	702
	22	167
Phæosporeæ	22	167
Phallales	22	172
Phallus	22	172
Phanerogams	26	295
Phaseaceæ	22	175
Phascum	22	175
Phycology	22	23
Phycomycetes	22	166
	22	207
Phyllachora	22	171
graminis	22	171
Phyllosiphon	22	166
Phyllosticta	17	397
	22	170
	22	173
Phylum carpomycetes	12	167
chlorophyceæ	12	165
lepidophyta	22	177
siphonopyceæ	12	165
teliosporeæ	12	170
Phytophthora infestens	4	314
	19	55
Pilularia	11	134
Plagiochila	22	174
Plankton	22	152
Plant of a stonewort	22	172
Plasmopara cubensis	19	55
Plasmopara victicola	19	55
Plowrightia morbosa	22	201
Podosphæra Oxycanthæ	19	55

Spore-producing plants, etc.—cont'd	Vol.	Page
Polypodiaceæ	2	408
	4	408
	11	133
	22	175
Polyodiales	22	175
Polypodium	22	175
	22	335
vulgare	22	335
Polypody	11	133
Polyporus	9	362
	22	173
	22	335
Polystichum	11	134
Polystictis versicolor	9	362
Polytrichum	22	175
Porphyra	22	168
Pore fungi	12	172
	22	172
Pore mushroom	19	624
Powdery mildews	12	168
Protococcales	22	164
Protococcoideæ	22	164
Protococcus	22	205
Protophyta	17	396
Psilotaceæ	11	135
Pteretis struthiopteris	21	87
Pteridium	22	175
Pteridium aquilinum	4	408
Pteridophyta	4	309
	22	175
	22	176
	22	177
	22	208
	26	295
Pteridophytes	11	131
	11	132
	22	215
	25	614
Puccinia	22	170
Puff balls	19	624
	22	172
	27	104
Pycnidia	22	173
Pyrenomycetales	17	397
	17	398
Pyrenulales	22	170
Pythium	22	167
debaryanum	19	55
Pyxidanthera barbulata	23	50
Pyxie	23	50
Quillwort	22	174
Ramularia	22	173
Reindeer moss	17	399
	22	170
	23	333
Red seaweeds	22	169
	22	207
truffle	27	104
Resurrection plants	11	132
Rhodochætales	22	168
Rhodophyceæ	22	168
	22	207
Rhodymeniales	22	169
Riccia	22	174
	25	432
Ricciaceæ	22	174
	17	539
Ricciocorpus	22	174
Ringless ferns	22	175
Rivularia	22	164
Roccella	9	452
Roccella tinctoria	2	168
Rock-brake fern	11	134
Rockweeds	22	168
Running pine	11	131
Russula emetica	12	173
Rusts	22	171
Saccharomyces	29	620
Saccharomycetaceæ	12	169
Saccharomycetales	22	171

Spore-producing plants, etc.—cont'd	Vol.	Page
Saccharomycetes	29	620
Sac fungi	22	169
Salvinia	22	176
	24	216
Salviniaceæ natans	24	216
Salviniaceæ	24	216
Salviniales	11	134
Sap rot	9	362
Saprolegnia	21	353
Saprolegniaceæ	12	166
Saprolegniales	22	167
Sarcina	24	296
Sargassum	13	543
	22	168
Sargassum bacciferum	22	168
Scale mosses	22	174
Schizæa	11	133
Schizæaceæ	11	133
Schizomycetes	4	309
Schizophyceæ	4	309
Schizosaccharomyces	29	620
Sclerodermataceæ	17	399
Sclerodermatales	22	172
Scleroderma vulgare	27	104
Sclerotinia	22	170
Scouring Rush	22	176
Seed ferns	22	177
Segetum	9	430
Selaginella Lepidophylla	11	132
Selaginella	11	132
	11	135
	22	176
	22	177
	22	215
	24	534
Selaginellales	22	177
Septoria cerasina	22	254
Siphoneæ	6	578
	22	166
Siphonocladeæ	22	166
Siphonocladales	22	166
Siphonophyceæ	22	165
	22	207
Slime algæ	12	165
	22	215
Smooth Lepiota	19	623
Smuts, the	22	171
Soil fungus	22	100
Sooty mold	20	727
Spermœdia	22	171
Sphagnum	22	174
	25	402
Sphærella nivalis	24	292
Sphæriaceæ	12	168
	17	398
Sphæriales	22	170
Sphæropsidales	22	173
Sphærotheca	22	171
Sphærotheca castagneri	19	55
Sphærotheca mors-uvæ	19	55
Sphærotheca pannosa	19	55
Sphagnales	22	174
Sphenohyllineæ	22	176
Sphenophyllales	22	176
Spirogyra	6	578
	6	579
	22	165
	22	225
Splachnum	24	292
Splagnaceæ	25	402
Spleenworts	11	133
Sponge mushroom	22	170
Stag-horn fern	11	133
Stictina	17	397
Stone age	16	49
Stone circles	25	693
Stoneworts	22	166
Synchytriaceæ	12	165
Systremma	22	171

Spore-producing plants, etc.— cont'd	Vol.	Page
Sword fern	11	133
Teliosporeæ	22	171
	22	207
Terfezia leonis	27	104
Tetrasporales	22	164
Thallophyta	4	309
	26	295
Thallophytes	25	614
Thelephoraceæ	17	399
Tilopteridales	22	167
Tirmannia	27	104
Toadstools	26	658
Tree fern	22	800
ferns	11	133
True ferns	22	176
Tree lichens	23	333
Tremellales	22	173
Trichomanes	11	134
True mosses, the	22	175
red seaweeds	22	168
Truffles	22	170
	27	103
Tuberales	22	170
Tuber æstivum	27	103
cibarium	27	103
melanospermum	27	103
Ulothrix	22	205
Unicinula spiralis	19	55
Uredinales	22	171
Usnea	22	170
	23	333
	27	607
Ustilaginales	22	171
Ustilago	9	430
	22	172
Vaucheria	22	164
	22	166
	22	167
Vaucheriales	22	166
Verrucariaceæ	17	398
Violet moss	28	106
Volvocaceæ	6	578
Volvocales	22	164
Volvox	28	183
Volvox globator	28	183
Walking-leaf fern	11	134
Water fern	22	175
	22	176
Water molds	12	166
	22	167
Wedge-leaved calamites, the	22	176
Wood ferns	11	133
	11	134
Woodsia	22	175
	22	176
Yeast	29	620
Yeasts	12	169
Zygnema	21	353
Zygnematales	22	165
Zygophyceæ	22	165
	22	206

Seed Producing Plants or Phanerogams,— all Plants not included in Cryptogamous Division

Seed producing plants, etc.— cont'd	Vol.	Page
Aaron's rod	24	526
Abele	22	362
Abies	11	471
	22	179
	25	460
Abies pectinata	8	320
Abietales	22	178
Abietineæ	11	229
Abietinæ	25	460
Abizzia acle	27	90
Abrus precatorius	22	515
Abutilon abutilon	18	168
Acacia	1	60
	2	567
	22	182
concinna	25	158
dealoata	2	567
horrida	9	262
Acanthus	1	66
	22	182
Acer	1	83
	22	183
barbatum	25	802
Pennsylvanicum	29	260
pseudo-plantanus	22	151
	26	155
saccharum	11	472
Achias sapota	24	290
Achillea ptarmica	25	146
Achimenes	1	89
Achras sapota	11	474
	27	93
Aconite	1	96
Acorn	1	96
Acorus	22	185
Acrocomia lasiospatha	11	476
	13	504
sclerocarpa	13	504
Acronychia baueri	27	202
lævis	29	629
Actæa	1	106
Adam's apple	1	128
needle	29	672
Adansonia digitata	11	474
Adonis	1	150
Adonis æstivalis	21	717
Aegopodium podagraria	13	87
Œnothera	8	231
Aerides	1	179
Æschynomene virginica	28	47
African juniper	16	250
African forests	27	94
Agathis Australis	16	322
Agave	1	233
Agerateæ	19	52
Ageratum	1	236
Agrimony	1	267
Agropyron	1	267
	13	158
Agropyron divergens	13	158
Agropyron occidentale	13	158
Agropyron repens	13	158
tenerum	13	158
Agrostis	22	185
alba	13	155
Ailanthus	1	273
glandulosa	27	691
Akee	1	294
Albarco	27	91
Alchemilla pratensis	16	646
Alder	1	354
Aldrovandia vesiculosa	15	160
Aleppo pine, the	22	97
Aletris farinosa	25	489
	27	283
Aleurites	1	360
moluccana	11	474
Alexanders	1	371
Algarovilla	1	381
Alisma	22	178
	22	184
Alismaceæ	2	330
	24	109
	29	26
Alismatales	22	179
	22	184
Alkanet	1	406
Allamanda	1	409
Alligator-pear	1	422
	17	107
Allium	1	423
ascalonicum	24	654
cepa	2	63
porrum	17	229
schœnoprasum	6	573
scorodopbrasum	23	587
Allspice	1	428
	22	182
Aloe	1	434
Aloes wood	1	434
Alsike	7	134
Alsine	25	655
Althæa	14	167
officinalis	18	168
rosea	14	320
Amaranthus	1	463
	22	181
Amaryllidaceæ	1	464
	19	704
	20	79
	25	151
Amaryllis	1	464
	22	185
Amelanchier	1	477
	24	604
alnifolia	24	605
botryapium	24	605
canadensis	24	605
Amentiferæ	1	478
American aspen	22	362
hornbeam	14	384
larch	16	746
mistletoe	19	262
whitewood	29	477
Ammiaceæ	22	183
Ammiales	22	183
Ammophia	13	158
Ammophila	1	580
Amœna	2	687
Amomum angustifolium	5	598
cardamon	5	598
Amorphia canescens	22	505
Ampelopsis	1	585
	28	146
Amra	25	429
Amygdalaceæ	2	101
Amygdalus mume	2	101
Amyridaceæ	1	598
	6	559
Amyris tacamahac	26	262
Anacardaceæ	27	91
Anacardiaceæ	1	601
	6	435
	22	118
	23	478
	24	546
	25	429
occidentale	5	702
Anacardium rhinocarpus	27	91
Ananas sativus	22	90
Anatto	1	717
Anchovy pear	1	653
Anchusa sempervirens	1	406
Andira	1	667
Andropogon	1	677
	13	157
gryllus	4	640
nardus	17	281
schoenanthus	17	281
squarrosus	28	54
virginicus	13	157
Anemone	1	680
nemorosa	29	378
quinquefolia	29	378
Angelica	1	681
Angiospermæ	4	310
Angustura bark	1	694
Animated oats	20	533
Annatto	1	717
Annona muricata	25	272
Annonaceæ	1	719
Anona	2	5
Anthemis nobilis	6	269

Seed producing plants, etc.— cont'd	Vol.	Page
Anthistiria australis	2	567
Anthistiria ciliata	16	293
Anthocyanine	8	349
Anthophyta	4	309
	22	179
	22	184
	22	208
	24	527
Anthoxanthum odoratum	26	126
	29	498
Anthriscus cerefolium	6	420
Anthyllis vulneraria	28	47
Antiaris toxicaria	11	475
	27	583
Antirrhinum	2	89
	25	144
Apetalæ	4	310
Aphananthe philippinensis	10	259
Apiaceæ	19	662
	27	266
Apios apéos	13	492
Apium	22	183
graveolens rapaceum	6	167
Apocynaceæ	2	63
	5	476
	21	598
	22	181
	23	745
	25	741
	27	92
Apocyneæ	4	610
Apocyonaceæ	23	745
Apocynum	9	229
androsæmifolium	9	229
cannabinum	5	476
	9	229
Apois apios	9	494
Aponogeton fenestralis	17	98
Apple	2	84
	22	182
Apriaceæ	6	671
Aquifoliaceæ	2	112
Aquilaria	11	474
Arabian primrose	22	579
Aracacha	2	325
Araceæ	2	129
	22	185
	25	79
Arachis hypogæa	9	494
Arales	22	184
Aralia	2	131
	23	488
	24	803
Araliaceæ	2	131
	22	183
Aralia cordata	27	251
Araucaria brasiliana	2	135
	27	93
excelsa	2	135
imbricata	2	135
Araucariales	2	135
Araucarioxylon arizonicum	11	486
Arbor dianæ	9	70
vitæ	2	146
	22	179
Arbutus	2	147
trailing	2	147
Archangelica	27	267
Archichlamydeæ	4	310
Areca	2	190
	21	216
catechu	21	217
Arecaceæ	22	185
Arecales	22	185
Arenaria	2	190
Arenga saccharifera	11	476
Areng palm	2	191
	21	217

Seed producing plants, etc.— cont'd	Vol.	Page
Arenga saccharifera	13	43
	21	217
	26	667
Arisæma	22	185
dracontium	9	296
Aristolochia	2	238
Aristolochia macrophylla	9	439
Aristolochiaceæ	2	375
Arizona sycamore	22	151
Armoracia amoracia	4	420
Arnebia cornuta	22	579
Arnotto	1	717
Aroideæ	3	320
Aroids	22	184
Arracacha	2	325
Arrhenatherum	2	328
avenaceum	13	157
Arrowhead	2	330
Artemisia	2	348
absinthium	29	559
tridentata	24	108
Artocarpaceæ	6	160
	23	745
Artocarpus	2	369
	4	452
Arum	2	370
Arundinaria	13	158
	27	93
Arundo donax	13	160
Arundinaria macrosperma	5	498
Arvense	21	435
Asarum	2	375
Asclepiadaceæ	2	380
	5	672
	22	181
	25	488
Asclepiadeæ	4	610
Asclepias	2	381
	22	181
	22	248
Ash	2	382
	22	181
leaved maple	4	368
Asimina, papaw	2	399
Asoka	2	401
Aspen	2	404
Asperula	29	498
odorata	26	126
Asphodel	2	407
Aspidosperma	27	92
zuebracho	23	77
Assai palm	21	217
Aster	2	443
Asteraceæ	2	348
	6	647
	11	392
	13	29
	18	281
	24	560
	29	713
Asterales	22	181
	22	184
Asterpatens multiflorus	22	505
sericeus	22	505
Aster patens	22	505
Asters	22	505
Astragalus	28	46
milk vetch	2	451
Astralagus	17	564
Astrocaryum	2	452
tucuma	2	452
Astronium	27	91
Atamasco lily	29	703
Atriplex	2	518
	13	60
	24	108
confertifolia	24	108
muttalii	24	108
Atropa	2	518

Seed producing plants, etc.— cont'd	Vol.	Page
Attalea	2	520
cohune	11	474
Attar of roses	2	520
Auricula	2	554
Avagallis	22	91
Avena	13	158
	22	185
brevis	20	533
elatius	2	328
fatua	13	158
	20	533
sativa	20	533
sterilis	20	533
strigosa	20	533
Averrhoa carambola	5	583
Avocado	1	422
	17	107
Azalea	2	687
Azaroles	8	162
Baby primrose	22	579
Baby's breath	3	416
Baccharis halimifolia	21	499
Bachelor's button	3	16
	6	199
Bactris	3	31
	21	216
Bacularia monostachya	21	217
Bæchmeria nivea	23	202
Bahama grass	8	366
Balata	27	93
Bald cypress	8	368
	27	36
Balm	3	110
of Gilead, the	22	362
Balsam	3	112
Balsamo	27	90
Balsamodendron	3	112
Balsam-poplar	22	362
Bamboo	3	129
Bamboos	22	185
Bambusa	22	185
	27	93
arundinacea	26	196
Banantree	3	217
Banyan	3	217
Baobab	3	217
Barbados cedar	3	230
cherry	3	230
flower fence	3	230
gooseberry	3	230
leg	3	230
lily	3	230
pride	3	230
Barberry	3	236
	22	180
Barley	3	257
Barossus palm	21	217
Barrel cactus	5	131
Barwood	5	288
Basella	3	305
Basil	3	306
Bassia	24	291
latifolia	11	474
Basswood	3	319
	17	456
	29	477
Bastard cedar	6	104
Batodendron arboreum	27	635
Bauhinia	3	349
Bay	3	358
Bayberry	5	497
Beach pea	21	436
plum	22	253
Beam tree, white	3	377
Bearberry	3	379
Beard tongue	21	556
Beaver tree	18	131
Bedstraw, galium	3	416
Beech	3	423
	29	477

Seed producing plants, etc.— cont'd	Vol.	Page
Beef wood	3	428
Bee larkspur	3	422
Bee orchis	3	422
Bee tree	3	422
Beggar's lice	3	443
Beggar weed	3	444
Begonia	3	444
	10	224
	22	183
scandens	25	266
Belamcanda	15	325
Belladonna	3	479
Bellflower	4	128
	5	276
Bellflowers	22	184
Bellis perennis	18	282
Bellwort	5	276
	13	707
Benjamin bush	11	163
Bennettitales	22	178
	22	179
Bennettites	22	178
Bennettitineæ	22	178
Bent grass	3	525
Benzoin benzoin	11	163
	17	107
	25	404
Berberis	22	180
Berchemia scandens	26	45
Bergamot	3	544
Bergamot mint	10	212
Bermuda cedar	16	2[illegible]0
Bermuda easter lily	17	438
Bermuda grass	3	566
	8	366
Berria ammomila	11	475
Bertholletia	22	182
excelsa	4	444
	27	91
Betel	3	589
Betel nut	2	190
Betle	3	589
Betula	11	472
	22	183
	29	403
Betulaceæ	3	724
	14	23
	14	383
	15	389
Betula lutea	29	477
Bhotan pine, the	22	98
Bicolor	22	80
Bicuculla canadensis	25	467
Big laurel	18	131
Bignoneaceæ	27	92
Bignonia	3	699
	27	106
Bignoniaceæ	27	106
Bignonia venusta	27	106
Big tree	22	179
Bikukulla	3	700
Bilimbi, cucumber-tree	3	702
Binincasa cerifera	18	607
Birch	3	724
	22	183
Birch, American	29	477
Bird-cherry	3	727
Bird's foot	3	736
	27	36
Bistort	4	23
Bitter-sweet	4	25
Bitter vetch	4	25
Bitterwood	4	26
Bixa orellana	9	452
	11	474
Black	22	253
Blackberry	4	39
lily	4	39
Black birch	3	725
Blackcap	28	221

Seed producing plants, etc.— cont'd	Vol.	Page
Black cohosh	6	678
eyed Susan	21	69
fir	22	97
Jack	4	36
mulberry	19	552
parsley	26	488
pine	22	97
poplar	22	362
raspberry	23	221
snakeroot	6	678
summin	20	337
Blackthorn	22	253
	25	99
Blackwalnut	28	244
Blad apple	3	230
Bladder nut	4	50
wort	15	160
Blazing star	27	283
Blighia	4	82
Blitum capitatum	13	60
Blood root	27	202
Blossoms of the snow	12	110
Bluebell	4	128
	13	707
Blue bottle	7	714
flag	15	325
grass	4	125
gum	22	182
Marguerite	18	281
thistle	26	568
Bo	4	134
Bocconia	4	142
Bodhi tree	4	134
Bœhmeria tenacissima	23	202
Bogbean	4	665
Bois-de-chypre	10	259
Bombacaceæ	25	6
	27	91
Bombax	4	199
malabaricum	25	7
Boneset	4	213
Borage	4	263
Boraginaceæ	9	232
	13	484
	26	568
Boragineæ	28	109
Borassus	4	263
flabellifer	21	217
flabelliformis	21	217
	26	667
Borraginaceæ	27	92
Boston ivy	15	568
Bo tree	21	469
Bottle gourd	5	153
tree	4	317
Bougainvillea	4	323
	4	324
Bouncing bet	4	329
Bourbon palm	21	217
Bouteloua	13	158
curtipendula	13	158
oligostachya	13	158
Bouvardia	4	356
Bowman's root	4	366
Box	4	368
elder	4	368
leaved milkwort	22	329
Brachystegia	11	475
Bramble	4	409
Brassaia actinophylla	27	268
Brassica	22	181
alba	4	420
campestris	27	205
nigra	4	420
rapa	27	205
Brassicaceæ	4	420
	19	655
	22	180
	23	126
	27	205
Brayera	4	423

Seed producing plants, etc.— cont'd	Vol.	Page
Brazil nut	4	444
	22	182
Brazil pine	2	135
Brazilian grass	4	444
Bread fruit	4	452
nut	4	452
Bridal wreath	4	493
Bristle-pointed oats	20	533
British oak	20	530
Brittle glassworts	13	60
Briza	4	567
Broccoli	4	570
Brodiæa	4	572
Brome grass	4	576
	22	184
Bromelia	4	576
Bromus	22	184
inermis	13	156
secalinus	13	157
Broncho beans	16	246
Brooklime	4	591
Broom	4	597
Broom corn	4	597
hickory	14	168
Broomrape	22	182
Brosimum alicastrum	4	452
aubletii	25	144
galactodendron	8	134
Broussonetia	4	602
Broussonetia papyrifera	11	475
	19	552
Bruguiera	27	92
Brunfelsia	27	106
Brush grass	4	640
Brya ebenum	11	474
ebenus	16	450
Bryony	4	651
Bryophyllum	4	651
Buchanania	4	662
Buchu	4	664
Bucida capitata	24	253
Buckbean	4	665
Buckeye	4	665
	14	410
Bucklandia	4	668
Buckthorn	4	670
	23	454
Buckwheat tree	4	671
Buddleia	4	677
Buffalo berry	4	693
bur	24	250
grass	4	694
Bugbane	4	698
Bugle weed	4	700
Bugloss	4	700
Bulbilis	13	158
dactyloides	13	154
	13	158
Bull	22	97
Bullace	5	14
Bull bay	18	131
Bullet tree	5	16
Bull thistle	26	568
Bully tree	5	16
Bulnesia arborea	27	92
sarmienti	27	92
Bulrush	5	19
	22	185
	27	240
Bunch grasses	11	152
Bunias	5	24
Buphthalmum	21	69
Burdock	5	35
Buriti palm	5	45
Burmanniaceæ	22	186
Bur marigold	5	30
Burnet	5	56
Burning bush	5	58
Bur oak	20	530
Burseraceæ	5	67
	19	662

Seed producing plants, etc.—cont'd	Vol.	Page
Buasu palm	5	75
Butea	5	77
Butea frondosa	9	52
Butomus	23	780
Butter bur	5	87
Buttercup	8	246
	22	180
Butterfly lily	18	293
plant	5	90
weed	5	90
Butternut	5	90
Butter tree	5	87
Butterwort	5	90
Buttonball	22	151
Button bush	5	92
Buttonwood	5	92
	22	151
Butyrospermum	5	93
Buxaceæ	4	368
Buxus	5	94
sempervirens L.	27	92
Cabbage palm	5	116
palmetto	24	77
rose	5	116
Cactaceæ	6	225
Cactales	22	183
Cactus	5	130
Cadamba	5	131
Cæsalpina brasiliensis	4	444
	11	474
Cæsalpinaceæ	16	372
Cæsalpinia	9	198
	9	452
	27	89
coriaria Willd	27	89
echinata	4	444
echinata Lamck	27	89
sappan	24	290
	27	89
Cæsalpiniaceæ	5	138
	17	258
	21	332
Cajanus indicus	21	436
Cajeput	5	151
Calaba nuts	5	152
Calabar bean	5	153
Calabash gourd	5	153
nutmeg	5	153
tree	5	153
Caladium	5	154
esculentum	10	224
sagittifolium	4	443
sequinum	2	130
Calamagrostis	13	158
canadensis	13	158
Calamander wood	5	155
Calambac	5	155
Calamint	5	155
Calamus	5	155
	21	216
draco	9	296
pachystemonus	23	227
rotang	23	227
rudentum	23	227
Calaveras grove	5	157
Calceolaria	5	158
Calendula officinalis	18	287
California poppy	10	495
sycamore	22	151
Calla	5	225
lily	22	184
	22	185
Calligonum	5	227
Callistemon salignus	26	309
Callistephus chinensis	2	444
hortensis	18	282
Callitris	24	253
quadrivalvis	24	253
Calochortus	5	229
	18	293
	22	184

Seed producing plants, etc.—cont'd	Vol.	Page
Calophyllum	5	230
inophyllum	26	202
Calopogon	13	153
Calotropis	5	234
Caltha	5	235
palustris	8	139
	18	287
Caltrop	5	235
Calumba	5	236
Calycanthus	5	241
floridus	25	723
Camass	5	244
Camassia esculenta	13	61
Camelina sativa	13	22
Camellia	5	259
sasanqua	25	158
Camel's-thorn	5	259
Camillia sasanqua	5	259
Camomile	6	269
Campanula	5	276
	22	184
rapunculus	23	204
rotundifolia	13	707
Campanulaceæ	5	276
	23	204
Campanulales	22	183
Camphora officinalis	11	474
officinarium	5	284
Calamus scipionum	18	157
Camilina dentata	13	22
Camphor tree	17	107
Campsis grandiflora	27	106
radicans	27	106
Camwood	5	288
Canada red pine	29	477
thistle	26	568
Canadian dogwood	22	787
Cañaigre	5	480
Cananga odorata	11	474
Canari	16	289
Canarium	5	488
Canary-bird flower	5	488
	27	87
Canary creeper	5	488
Candleberry	5	497
myrtle	5	497
Candle-nut	5	497
Candytuft	5	498
Cane-brake	5	498
Canella	5	499
Canella alba	5	499
Canellaceæ	5	499
Canna	5	501
	22	186
	27	202
Cannabis	22	180
Cannabis indica	18	749
Cannon-ball tree	5	511
Canterbury bell	5	531
Cantaloupensis	18	607
Cape honey-suckle	27	106
lilac	22	570
primrose	22	579
Caper-bush	5	551
Capparis spinosa	14	611
Caperifoliaceæ	11	163
Capriola dactylon	8	366
Capsella bursa-pastoris	24	698
Carapa	5	583
	27	88
guianensis Nubl.	27	89
Carat	5	584
Caraway	5	585
Cardamine	5	598
hirsuta	5	598
pratensis	5	598
Cardinal flower	5	602
Carduus	26	568
Carex	5	606
	22	185
	24	523

Seed producing plants, etc.—cont'd	Vol.	Page
arenaria	5	606
Morrowi	5	606
Carica	5	611
	22	180
papaya	18	607
	21	256
Caricaceæ	21	256
Cariniana	27	91
pyriformis	27	91
Carline thistle	26	568
Carlina vulgaris	26	568
Carludovica palmata	13	756
	21	217
Carnation	5	631
Carnauba	5	632
Carnegiea	22	183
Carob	5	645
Carolina pink	5	647
poplar	22	362
Carpathian balsam	22	198
Carpinus	14	383
Carrion flowers	5	672
Carthamus tinctorius	24	104
Caryocar	5	692
	25	268
Caryocarus amygdaliferum	5	692
labrum	5	692
nuciferum	5	692
Caryophyllaceæ	9	70
	24	809
	25	461
Caryota	5	692
urens	5	692
	11	476
	21	217
	26	667
Caryopsis	5	692
Cascarilla	5	696
Cashew	5	702
nut family	23	478
Cassava	5	709
Cassia	5	710
	17	107
acutifolia	5	710
fistula	5	710
lignea	5	710
tora	29	571
Cassytha	9	219
Castalia	29	22
Castanea	4	444
	5	720
crenata	6	429
dentata	6	429
	11	472
	17	783
pumila	6	430
sativa	6	429
Castilla elastica	27	93
Castilloa elastica	6	6
	15	25
	23	745
Castor bean	22	180
Casuarina	2	567
	6	23
	24	669
glauca	24	669
stricta	24	669
suberosa	24	669
torulosa	11	470
Catalpa	6	43
	22	182
	27	92
	27	106
speciosa	11	473
Catasetum	20	751
	22	186
Catha	6	51
Cat mint	6	105
Catnip	19	212

Seed producing plants, etc.— cont'd	Vol.	Page
Cat-tails	27	240
Cattleya	6	124
	20	750
	22	186
Cattley guava	13	520
Ceanothus	6	157
	22	505
	23	454
Cecropia	6	160
peltata	6	160
	25	144
Cedar	6	160
	6	161
	29	477
Cedar of Lebanon	6	160
Cedrela	6	164
	27	88
odorata	6	161
	11	474
	27	88
sinensis	26	698
toona	18	137
	26	698
Cedrelaceæ	6	164
australis	6	164
odorata	6	164
toona	6	164
Cedrus atlantica	6	160
deodara	6	160
Celba pentandra	11	475
	25	7
	27	87
	27	92
Celandine	6	165
Celastraceæ	4	25
	6	51
	6	166
	25	412
Celastrales	22	183
Celastrus scandens	24	760
Celery	6	167
Celtis	6	189
	13	607
	20	97
australis	20	97
Cembra	22	98
Cenchrus	13	158
Centaurea	6	199
	25	491
	26	568
calcitrapa	26	568
Centaury	6	199
Centranthus ruber	27	647
Centrolobium	27	90
Century plant	6	216
Cephaelis	6	216
Cephalotus follicularis	22	121
Cerasus	6	222
Ceratonia siliqua	5	645
Cerbera (tanghinia) venenifera	26	242
Cercis	6	223
canadensis	16	231
chinensis	16	231
occidentalis	16	231
siliquastrum	16	230
Cercocarpus	18	137
ledifolius	18	137
montanus	18	137
Cereus	6	225
grandiflorus	20	339
Cerlops	27	92
Cerothamnus cerifera	5	497
Ceroxylon andicola	29	119
Chærophyllum	9	494
bulbosum	6	420
	27	267
Chætochloa	13	155
	13	158
Chalcedonian iris	15	325

Seed producing plants, etc.— cont'd	Vol.	Page
Chamæcyparis nootkatensis	6	161
thyoides	6	160
Chamædorea	21	216
Chamærops	6	257
	11	9
Chamærops argentea	4	444
humilis	11	9
	21	216
Chamælirium luteum	27	282
Champak	6	271
Chard	6	304
Chaulmoogra	6	366
Chayote	6	369
Checkerberry	12	341
	21	358
Cheer pine	22	98
Cheese-plant	18	168
Cheiranthus cheiri	28	233
Chelone	21	557
barbata	21	557
	27	207
campanulata	21	557
	27	207
Chenopodiaceæ	2	518
	6	411
	13	60
	24	61
	24	108
	24	183
	24	197
	25	410
Chenopodiales	22	181
Chenopodium	6	411
	22	181
album	6	412
	13	60
	23	96
ambrosioides	13	60
bonus-henricus	6	412
murale	13	60
quinoa	23	96
urbicum	13	60
Chrysanthemum morifolium	6	647
Chequen	6	413
Cherry birch	3	725
Cherry laurel	6	418
	17	107
plum	22	253
Chestnut	6	429
oak	20	530
Chica	6	437
Chicha	6	437
Chick pea	21	436
Chickweed	6	457
wintergreen	29	403
Chicot	13	591
Chile pine	2	135
Chilean guava	19	662
Chimaphila maculata	29	403
China aster	2	444
	18	282
grass	23	202
rose	6	548
tree	22	570
tree, wild	6	548
Chinconiaceæ	27	269
Chinese elm	10	259
parasol tree	25	623
Chinese Sacred Lily	19	705
Chiococca	6	561
alba	25	150
brachiata	6	561
Chiogenes hispidula	25	150
	27	635
Chicle	29	93
Chinese arrowroot	20	67

Seed producing plants, etc.— cont'd	Vol.	Page
Chionanthus	11	392
virginica	12	110
Chito	18	608
Chloris radiata	6	577
verticillata	6	577
Chlorophora tinctoria	11	474
	27	92
	29	629
Chloroxylon	6	580
swietenia	11	474
	24	311
	29	629
Chocho	6	369
Christmas rose	14	83
Christ's thorn	6	631
	16	241
Chrosperma	6	646
Chrysanthemum	6	647
Chrysogonum	6	648
Chrysophyllum	6	648
cainito	6	648
	25	489
Chrysopsis	6	649
Chrysanthemum cinerariæfolium	6	647
	23	43
coccineum	6	647
	23	42
frutescens	6	647
	18	282
indicum	6	647
leucanthemum	6	647
	21	69
prælitum	23	43
segetum	6	647
	18	287
Chrysobalanæ	6	648
Chrysobalanus	23	690
Chysis	20	751
Cicely, sweet	6	668
Cicer	6	668
Cicer arietinum	21	436
Cichoriaceæ	6	458
Cichorium intybus	6	458
Cicuta	6	671
	14	88
	29	20
Cimicifuga	6	677
Cinchona	27	87
calisaya	6	678
officinalis	6	678
pallida cortex	6	678
succirubra	6	678
Cineraria	6	686
	24	560
Cinnamomum	6	686
cassia	6	686
culiwan	6	686
zeylanicum	6	686
Cinnamon	6	686
	17	107
Cinnamonum camphora	27	91
zeylanicum	27	91
Cinquefoil	6	688
	22	447
Circæa	10	314
Cirsium	6	697
	22	184
	26	568
acaule	26	568
arvense	6	697
	26	568
horridulum	26	568
lanceolatum	6	697
	26	568
odoratum	26	568
Cissampelos obtecta	6	698
pareira	6	698
Cissus acida	25	266

Seed producing plants, etc.—cont'd	Vol.	Page
Cissus antarctica	28	146
Cistus	6	699
creticus	6	699
ladaniferus	6	699
Citronwood	6	711
Citrullus	22	188
vulgaris	19	607
Citrus	24	65
decumana	24	637
limonia	17	281
Citruswood	6	711
Cladium	7	28
Cladrastis	7	28
lutea	29	628
Claytonia	7	77
Clearing nut	7	78
Cleavers	7	79
Clematis	7	82
Cleome	7	88
Clethra	7	92
Clianthus dampieri	21	436
Clinopodium	7	113
Clintonia	7	116
Clistoyucca	29	672
Clothier's teasel	26	568
Cloudberry	7	129
Clove gilly flower	7	133
pink	7	133
	22	102
Clover	7	133
	22	182
Cluster pine, the	22	98
Cnicus	7	141
Coccoloba uvifera	24	476
Cochlearia	7	184
Cocklebur	7	187
Cockscomb	7	188
Coconut palm	22	185
Cocos	7	191
	21	216
butyracea	21	217
nucifera	11	475
	21	216
	22	185
	26	667
Cohosh	7	218
Coix lachryma-jobi	13	160
Cola	7	233
Colchicum	7	235
Colocasia	22	185
Colombo	5	236
Colubrina ferruginosa	25	144
Columbine	7	338
Comandra umbellata	26	658
Combretaceæ	19	661
Commelinaceæ	25	410
Commiphora myrrha	19	662
Common iris	15	325
Common juniper	16	250
Compass plant	7	428
	22	181
	22	184
Compositæ	2	311
	6	648
	6	649
	7	446
	25	319
	27	211
Comptonia peregrina	26	126
Cone of Ginkgo	22	177
Coniferæ	7	520
	11	229
	24	576
sinensis	8	303
Conifers	22	178
Conium maculatum	6	671
	14	88
Connaraceæ	29	691
Connarus guianensis	29	691
Conopodium	27	267

Seed producing plants, etc.—cont'd	Vol.	Page
Convalaria	22	184
	7	601
majalis	17	438
Convolvulaceæ, or bind weeds	7	615
Convolvulus	7	616
scammonia	24	340
Cooperia	7	643
Copaifera	27	89
Copernicia cerifera	11	476
	27	93
Copse	7	667
Coptis	7	668
trifolia	13	37
Coquilla nut	7	675
Coral tree	7	678
Corallorhiza	24	292
Corchorus	7	680
copsularis	18	168
olitorius	18	168
Cordaitales	22	178
Cordaitineæ	22	178
Cord grass	7	680
Cordia	27	92
gerascanthus	10	259
Cordiospermum grandiflorum	26	45
Coreopsis	7	690
Coriaria sarmentosa	29	386
Cork elm	10	259
oak	20	530
Corludovica palmata	27	93
Corm	7	697
Cornus	7	697
Cornaceæ	2	534
	7	706
	22	183
	27	166
Corn chamomile	6	269
cockle	7	698
Cornel	7	709
Corn flower	6	199
	7	714
mint	19	212
poppy	22	364
salad	7	706
Cornus	9	232
	22	188
canadensis	22	787
florida	9	232
sanguinea	9	233
Corpse plant	15	32
Corsican	22	97
Corsican, pine, the	22	98
Cortaderia argentea	21	221
jubata	21	221
saccharoides	21	221
Corylus americana	14	23
Corylus avellana	14	23
Corypha umbraculifera	11	476
	21	217
	26	225
Coryphantha	22	183
Cosmos	8	37
Costmary	8	44
Costus	8	56
Cotinus	25	135
Cotinus cotinoides	6	571
Cotoneaster	8	58
Cotton grass	8	76
gum	8	76
Cottonwood	8	90
Cotyledons	8	90
	22	179
	22	184
Couch grass	8	91
Couratari	27	91
Couroupita guianensis	5	511
Cowage	8	135

Seed producing plants, etc.—cont'd	Vol.	Page
Cowbane	8	133
	14	88
Cowberry	8	133
Cowitch	8	135
Cowhage	8	135
Cow parsnip	8	134
Cowpea	8	135
Cow plant	8	134
Cowslip	8	139
	22	579
Cow tree	8	134
wheat	8	134
Crab apple	8	143
grass	8	144
Crambe maritima	24	475
Cranberry	8	153
	22	181
Crane's bill	8	158
Crassulaceæ	8	161
	24	525
Cratægus	8	161
mexicana	8	162
oxacantha	14	9
Crazy weed	8	168
Cream nut	4	444
Creeping Charley	19	353
Jenny	19	353
snowberry	25	150
Cress	8	182
Crinum	8	204
Crithmum	27	267
maritimum	24	225
Crocus	8	219
	15	325
sativus	8	219
	24	104
Cross vine	27	106
Crotalaria	8	243
juncea	11	167
Croton	8	243
eleuteria	5	596
Crowberry	8	246
Crowfoot	8	246
Crown gall	8	247
imperial	22	184
Crow's nest	8	492
Cruciferæ	4	420
	17	307
	23	215
Cryptocarya obovata	26	155
Cryptomeria	8	263
Cuckoo flower	5	598
	8	290
Cucumber tree	8	291
Cucumis	22	183
melo	18	607
Cucurbitaceæ	21	454
	22	800
	24	510
Cucurbita pepo	22	800
Cucurcitaceæ	8	291
Cudweed	8	292
Culm	8	296
Cultivation of plum	22	253
Cuminum	8	300
Cuneata	29	691
Cunninghamia	8	303
Cupania sapida	4	82
Cupressus	22	179
funebris	8	368
macnabiana	8	368
macrocarpa	8	368
obtusa	8	368
sempervirens	8	367
torulosa	8	368
Curcuma	29	694
longa	27	202
zedoaria	29	694
Curcurbita	22	183

Seed producing plants, etc.— cont'd	Vol.	Page
Curly grass	8	309
palm	21	217
Currant	22	182
Cuscuta	9	218
	22	182
Cusparia bark	8	335
Cusso	8	335
Custcutaceæ	9	218
Cyanin	8	349
Cycadales	22	177
Cyadineæ	22	177
	22	178
Cycadophyta	22	177
Cycads	22	177
	22	216
Cycas	11	476
	22	177
	22	178
Cycas revoluta	4	80
	21	217
Cyclamen	8	361
latifolium	8	361
persicum	8	361
Cyclanthaceæ	21	217
	22	185
	27	93
Cydonia	8	363
vulgaris	23	91
japonica	8	363
Cymbalaria cymbalaria	26	658
Cynanthus acumniatum	28	98
Cynara	8	365
cardunculus	5	603
scolymus	2	357
	5	603
Cynodon dactylon	8	366
	13	155
Cynoglossum	8	366
officinale	8	366
	9	232
Cynosurus cristatus	9	232
Cyperaceæ	8	367
	21	270
	22	185
	23	780
	24	423
Cyperus	8	367
	9	494
	20	509
	22	185
alternifolius	8	367
esculentus	8	367
papyrus	21	270
Cypress	8	367
	22	179
Cypripedium	8	369
	19	282
	20	751
	22	186
Cyrilla	8	372
Cytisus	8	375
Dacrydium	8	389
cupressinum	23	525
franklinii	14	520
Dactylis	8	389
	22	185
Dactylis glomerata	13	155
Daffodil	8	391
	19	705
Dahlia	8	37
	8	394
Daisy	8	412
Dalbergia	8	413
	11	474
latifolia	27	89
melanoxylon	27	89
nigra	23	695
nigra Allem	27	89
retusa Hemsl	27	89
spruceana	27	89

Seed producing plants, etc.— cont'd	Vol.	Page
Dame's violet	8	430
	23	599
Dammara	2	135
	8	431
australis	11	475
Damsons	22	253
Dandelion	8	449
Daphne	8	470
gnidium	19	5
laureola	19	5
mezereum	19	5
Darlingtonia	8	479
californica	8	479
	22	121
Darnel	8	480
Dasheen	8	488
Dasiphora fruticosa	6	688
Date palm	8	490
	22	184
	22	185
plum	8	490
Datura	8	491
stramonium	8	491
tatula	8	491
Daucus	8	492
	22	183
carota	8	492
Day lily	8	520
	22	184
Deadly carrot	26	488
Dead nettle	8	526
	20	97
Deadly nightshade	3	479
Deciduous cypress	8	368
Deer grass	8	584
Deleb palm	8	618
	21	217
Delphinium	8	628
ajacis	8	628
exaltatum	8	628
Dendrobium	22	186
Dendrocalamus	27	93
Dentaria	8	688
Deodar	8	701
Desmoncus	21	216
Deutzia	9	35
gracilis	24	759
Devil's bit	9	39
	27	283
Devil-in-a-mist	20	337
Devil's shoestrings	14	305
Dhal pea	21	436
Dhak tree	9	52
Diana's tree	9	70
Dianthaceæ	22	181
Dianthus	9	70
	22	102
	22	181
	24	809
barbatus	22	102
caryophyllus	5	631
	24	809
plumarius	22	102
Dicotyledoneæ	11	392
	22	179
	22	182
	22	184
Dicotyledones	4	310
Dicotyledons	9	85
	22	179
group	9	86
Dicotyls	22	222
Dictamnus albus	9	196
Dieffenbachia	9	95
seguine	9	397
seguin	9	95
Digitalis	11	567
	22	181
	22	182
purpurea	16	646
Dika	9	119

Seed producing plants, etc.— cont'd	Vol.	Page
Dikamali	9	119
Dilleniaceæ	9	121
Diœcious	9	133
Dionæa muscipula	9	134
	9	340
	15	160
Dioon	8	376
Dioscorea	9	137
	22	185
	29	610
sativa	9	137
villosa	9	137
Dioscoreaceæ	9	137
Diosma	9	138
Diospyraceæ	22	181
Diospyrales	22	181
Diospyros	9	138
	21	630
	22	181
	27	92
ebenaceæ	29	477
ebeneum	11	474
kaki	9	138
lotus	9	138
virginiana	9	138
Dipsacaceæ	9	142
	26	568
Dipsacus	9	142
	22	183
fullonum	26	318
	26	568
sylvestris	26	318
Dipteraceæ	9	142
Dipterocarpaceæ	24	175
	27	90
Dipterocarpeæ	9	142
Dipterocarpus	27	90
Dipteryx odorata	11	474
	26	687
Dipteryx odorata Willd.	27	89
Distichlis	13	158
spicata	13	158
Dittany	9	196
Dividivi	27	89
Divi-divi	9	198
	27	89
Dock	9	216
Dodder	9	218
	22	182
Dodecatheon meadia	8	139
Dodonæa viscosa	25	266
Dogbane	9	229
family	22	181
Dog fennel	6	269
rose	9	229
Dog's-tail grass	9	232
Dog's tongue	9	232
Dog-tooth violet	9	229
Dogwood	9	232
	22	183
Dolichos	9	235
lablab	9	235
Domestica varieties	22	253
Dondia	13	60
Doom palm	9	261
Doornboom	9	262
Dorstenia	9	269
Dove plant	9	284
	25	420
Double seychelles	21	217
Douglas fir	11	230
Doum palm	9	261
	21	217
Dracæna	9	296
draco	9	290
Drimys granatensis	9	337
Dracæna	9	290
reflexa	3	320
Dracocephalum	9	291
parviflorum	9	291
Dragon root	9	296

Seed producing plants, etc.— cont'd	Vol.	Page
Drimys axillaris	9	337
Winteri	9	337
	11	474
	29	408
Drosera	5	643
	9	340
	26	27
rotundifolia	15	160
	26	27
Droseraceæ	9	124
	9	340
Drupes	4	452
Dryas	9	362
Dryobalanops	9	366
aromatica	27	90
camphora	9	142
Duboisia myoporoides	10	259
Duckweed	9	381
	22	184
Dudaim	18	608
Dumb cane	9	397
Durian	9	426
Dusty miller	6	199
	9	430
Dutch clover	9	434
Dutchman's pipe	9	439
Dutch rush	9	437
Dwale	3	479
Dwarfed trees	9	445
Dyers rocket	9	452
weed	9	452
East Indian rafflesia	22	182
Indian tree	18	137
Ebenaceæ	9	138
	21	630
	22	181
	27	92
Ebenales	22	181
Ebony	29	477
Ecballium elaterium	10	54
Echinocactus	9	542
Echinocereus	9	542
Echium	28	109
vulgare	26	568
Edelweiss	9	579
Eel grass	9	713
	14	560
	22	185
Egg plant	9	728
Eglantine	9	730
Egyptian bean	10	15
Elæagia utilis	27	691
Elæagnaceæ	24	473
Elæagnus	10	47
Elæis	10	47
Elæocarpus	10	47
Elæodendron	10	47
Elæis guineensis	11	474
Elæris guineensis Jacq.	27	93
Elaphidion villosum	20	530
Elder	10	57
	22	183
Elecampane	10	60
Elephant apple	10	222
grass	27	240
Elephant's ear	10	224
	22	185
foot	10	224
Elettaria cardamomum	5	598
Eleusine	10	224
Elk wood	27	267
Elm	10	258
	28	180
Elodea canadensis	14	560
Elœodendron glaucum	26	302
Elusine coracana	19	123
Elymus	13	159
canadensis	13	158
condensatus	13	158
triticoides	13	158

Seed producing plants, etc.— cont'd	Vol.	Page
Enchanter's nightshade	10	314
Enchrus tribuloides	24	250
Endive	10	320
Endogenæ	4	310
Endogens	10	323
English daisy	18	282
elm	10	259
iris	15	325
ivy	15	568
	22	183
Enhalus	14	560
Entada	10	398
Entandrophragma	27	88
Epacridaceæ	10	410
Ephedra	10	412
	22	178
Epidendrum	10	420
	20	757
Epigæa repens	17	107
	24	760
Epilobium	10	426
Epiphyllum	10	428
Equisetum hyemale	9	437
Eragrostis	10	465
Erianthus ravennæ	13	160
Ericaceæ	2	147
	2	687
	10	474
	22	181
	23	476
Ericales	22	181
	27	634
Erigeron	10	478
Eriocaulon	10	478
Eriodendron	10	478
Ervum ervilia	28	47
lens	17	292
Eryngium	10	487
	27	267
Erysimum	10	487
Erythrina abyssinica	5	584
Erythronium	9	229
	10	488
	22	184
Erythroplœum	10	488
Erythroxylon	10	489
Eschallot	24	654
Eschscholtzia	10	495
Eschweilera matamata	27	91
Esparto	10	501
Eucalyptus	2	567
	10	559
	11	475
	22	182
citriodora	11	474
resinifera	23	281
siderophloia	15	389
trees	22	208
Eucharis	10	560
Euchlenea mexicana	13	157
Eugenia	22	182
fragrans	29	691
Eulalia	10	573
Eulalia japonica	13	160
Euonymus	25	412
americanus	28	202
Eupatoriæ	19	52
Eupatorium	10	576
Euphorbia	11	393
Euphorbiaceæ	10	576
	23	745
	26	230
	27	93
Euphrasia	10	577
Euryale	28	73
Eurodium moschatum	19	651
European aspen	22	362
hazel	14	23
larch	16	747
linden	17	456

Seed producing plants, etc.— cont'd	Vol.	Page
lotus	8	490
oak	20	530
plum	22	253
raspberry	23	221
Eurotia	10	583
lanata	13	60
	24	108
Euryale	10	583
Euryangium sumbul	19	651
Eusideroxylon swageri	27	91
Eusporangiates	10	585
Euterpe	10	586
oleraceæ	11	476
Evening primrose	8	231
	10	595
	22	182
	22	372
	22	579
Evergreen oak	20	530
Evergreens	10	601
Evergreen trumpet flower	27	106
Everlasting flowers	10	602
pea	10	603
	21	436
Evonymus	10	613
Exocarpus cupressiformis	2	567
Exogenæ	4	310
Exogenous plants	10	640
Exostemma	10	641
caribæum	5	610
Eyebright	10	682
Fabaceæ	7	133
	9	235
	11	392
	17	258
	17	748
	23	695
	26	268
Fagaceæ	20	529
Fagara	11	474
Fagus	10	711
	11	471
	20	477
Fairy's fingers	16	646
False indigo	10	736
mistletoe	19	262
Fan palm	11	9
Fatsia	23	488
Feather bunch grass	11	73
geranium	13	60
Fedia cornucopiæ	27	647
Felicia amelloides	18	281
Fennel	11	117
	22	183
Fenugreek	11	117
Feronia	11	185
Fern fan palm	21	217
Fern palm	21	217
Fescue	11	152
Festuca	11	152
	13	159
elatior	13	156
ovina	13	158
Fever bush	11	163
Feverwort	11	163
Ficus	11	178
bengalensis	11	474
carica	11	201
elastica	15	25
	15	26
	23	746
religiosa	11	474
	21	469
sycomarus	26	155
Field larkspur	8	628
Fig flower	11	400
Filbert	14	23
Finger grass	8	144
	11	221

Seed producing plants, etc.— cont'd	Vol.	Page
Fir	11	229
Fire blight	11	233
	14	418
pink	24	810
Firs	22	179
Fish-tail palm	21	217
Five finger	22	447
Flacourtiaceæ	27	92
Flag	15	325
Flat palm	21	217
Flavus	22	80
Fleur de Lis	15	325
Flexuosus	18	608
Flindersia	11	356
oxleyana	29	620
Flower	11	390
Flowering plants	22	178
	22	179
wintergreen	22	329
Flower of magnolia	22	179
Fœniculum	11	117
	22	183
Forest trees of America	11	470
Forget-me-not	11	489
	22	182
Fortunella	16	555
Foxglove	11	567
	22	181
	22	182
Fragaria	22	181
	22	182
	25	721
Fragrant hickory	14	168
Fraxinus	2	382
	11	472
	22	181
ornis	18	231
Freesia	12	52
	15	325
Fringed milkwort	22	329
polygala	22	329
Fringe tree	12	110
Fritillaria	22	184
Fritillary	12	113
Frogbit	12	118
	14	560
Fuchsia	12	142
Funtumia elastica	15	26
Furze	12	200
Fusanus	24	252
Gagali	22	271
Gaillardia	12	227
Galactrodendron utile	11	474
Galanthus	25	151
Galax	12	233
Galium aparine	13	60
triflorum	29	498
Gall oak	20	530
Gamopetalæ	4	310
Garancine	12	277
Garcinia	12	281
Gardenia	9	119
	12	287
lucida	9	119
Garden orpine	17	527
Gaultheria	12	341
procumbens	21	358
	29	403
shallon	24	176
Gaylussacia	14	467
	27	635
Gaylussacia frondosa	27	635
Gellyflower	25	656
Gelsemium sempervirens	27	106
Genipap	12	397
Genista	12	397
monosperma	4	597
Gentian	12	402
	22	181
Gentiana	22	181

Seed producing plants, etc.— cont'd	Vol.	Page
Gentianaceæ	22	181
	24	79
	29	71
Gentianales	22	181
Geonoma	21	216
Georgia pine	20	477
Geraniaceæ	12	493
	21	482
Geraniales	22	180
Geranium	12	493
	21	481
	22	180
German ivy	12	500
	15	568
Germander	12	502
Gesneriaceæ	12	725
Geum	12	631
	23	690
Giant cactus	22	183
parsley	8	134
redwoods	27	36
Gigantic narra tree	18	121
Gillenia	12	655
Gillyflower	12	656
	25	656
Gingko	12	659
	21	163
	22	178
Gingkoales	22	178
Gingko biloba	22	178
Ginseng	12	660
	22	183
Girasole	12	665
Gladdon	15	325
Gladiolus	12	677
	15	325
	22	185
Glauca	26	658
Glechoma hederacea	13	492
	15	568
Gleditschia aquatica	29	23
Gleditsia	17	589
Globe flower	5	92
Glory pea	21	436
Gloxinia	12	725
Glutinosa	26	658
Glycine	25	319
Gnetaceæ	20	190
Gnetales	22	178
Gnetum	22	178
Goa tree	6	160
Goatsbeard	12	742
Godetia	12	745
Gold banded lily	17	438
Golden chain	13	26
Golden rain	13	26
Goldenrod	13	29
	22	184
	22	505
Golden wattle	2	567
Gold of pleasure	13	22
Goldthread	13	37
Gomuti	13	43
Gomuto	13	43
palm	21	217
Gongora	22	185
Gooseberry	13	60
Goosefoot	13	60
	22	96
Goose grass	13	60
Gosling weed	13	60
Gossypium	8	60
Gourd	22	183
Goutweed	13	87
Goutwort	13	87
Goywings	22	329
Gramina	24	499
Graminæa	27	93
Grape	22	183
hyacinth	14	534

Seed producing plants, etc.— cont'd	Vol.	Page
Grasses	22	185
in the United States	13	153
Grass-pink	13	153
tree	2	567
	13	153
wrack	9	713
	13	153
Gratiola	13	161
	14	611
Greasewood	13	168
Great laurel	23	476
lobelia	17	552
maple	22	151
Greenbrier	13	427
Green dragon	9	296
Greengages	22	253
Greenheart	17	107
Grewia denticulata	26	626
Grindelia	15	478
Gromwell	13	484
Grossularia	13	60
Grossulariaceæ	13	60
Ground cherry	13	492
Ground hemlock	22	179
ivy	13	492
	15	568
laurel	17	107
nut	13	492
pine	17	771
	21	784
Groundsel bush	21	499
Grugu	18	15
Grugru palm nut	13	504
Guaiacum	13	508
officinale	11	475
Guava	13	520
Guayabo	13	520
Guazuma	13	521
Guelder rose	13	523
Guettarda speciosa	29	691
Guiacum	27	92
officinale	27	92
sanctum	27	92
Guilielma speciosa	11	476
Guinea grass	13	539
pepper	13	539
Gumtree	2	567
	13	546
Gumuti	13	43
Guttiferæ	26	230
Gymnocladus	13	591
canadensis	13	591
dioica	16	372
Gymnospermæ	4	310
Gymnosperms	11	131
	13	591
	21	352
	24	527
	26	296
Gynerium argenteum	13	160
Gynerium sagittatum	27	93
Gypsophila	13	592
Hackberry	18	607
Hackmatack	16	746
Hæmatoxylon	11	474
brazilleto	27	89
campechianum	9	453
	17	611
	27	89
Hagenia abyssinica	4	423
Hairbell	4	128
Halophila	14	560
Hamamelis	22	182
virginiana	29	430
Hancornia speciosa	15	26
	23	745
	27	93
Harebell	4	128
	13	707
	17	552

Seed producing plants, etc.— cont'd	Vol.	Page
Haw	8	161
Hawkbit	14	7
Hawksbeard	14	8
Hawkweed	14	8
Hawthorn	8	161
	14	9
Hazelnut	14	23
Hearts ease	14	41
	21	249
Hedera	22	183
helix	15	568
Hedge thorn	8	161
Hedyscope canterburiana	21	217
Helenium	25	145
Heliamphora nutans	22	121
Helianthemum	6	699
	22	180
canadense	6	699
Helianthus	12	665
	22	184
	26	37
annuus	22	505
tuberosus	2	357
Heliopsis	21	69
Heliotrope	14	79
Hellebore	14	83
	28	11
Helobieæ	14	560
Hemicycadales, classification of	8	360
Hemerocallis	22	184
Hemlock poison	14	88
Hemlock	14	88
	22	179
Hepatica	14	109
Herb paris	14	115
twopence	19	353
Hercules' club	14	123
Hesperis matronalis	23	590
Hesperoiæ	29	672
Heteranthera	22	350
dubia	25	490
Hevea	28	745
braziliensis	15	25
	15	26
	27	87
Hibiscus	14	167
elatus	11	474
	11	475
esculentus	20	641
guineensis	27	268
moschentos	18	168
sabdariffa	25	266
syriacus	23	604
Hickory	14	168
king	8	234
Hicoria	11	472
Himalayan larch	16	747
Hinoki cypress	8	368
Hippocrepis comosa	28	47
Hippophaë	24	473
rhamnoides	24	473
Hoary pea	21	436
Hobble bush	14	304
Hog plums	25	429
Holarrhena	29	571
Holcus avenaceus	2	328
halepensis	25	264
lanatus	13	157
sorghum	25	264
Holly	22	183
Hollyhock	14	320
Holly oak	20	530
Holm oak	20	530
Holy Ghost flower	25	420
plant	9	294
Honey ball	5	92
dew	14	376
shucks	17	589

Seed producing plants, etc.— cont'd	Vol.	Page
Honeysuckle	22	183
Hoop ash	14	369
Hopea	27	90
Hordeum	22	185
jubatum	13	158
Hornbeam	14	388
Horse chestnut	14	410
nettle	20	97
radish	14	415
Hottentot's bread	10	224
House leeks	24	525
Hovea longipes	29	629
Hovenia dulcis	23	454
Howea	21	216
belmoriana	21	217
fosteriana	21	217
Huckleberry	14	467
Hudsonia	6	699
Huon pine	14	520
Hura	14	521
Hyacinth	14	533
	22	184
Hyacinthus	22	184
Hydrangea	14	539
radiata	20	351
Hydrastis	14	539
Hydrastis canadensis	27	202
	29	628
Hydrocharideæ	14	560
Hydrocharis morsus-ranæ	14	560
Hydrocharitales	22	185
Hymenæa	27	89
Hymenæa courbaril	27	80
	27	691
Hypericales	22	180
Hypericum	22	180
	24	137
perforatum	24	137
Hyphæne thebaica	9	261
	21	217
Hyphen thebacia	9	282
Hypoxis hirsuta	25	489
Hyssop	14	611
Iberis odorata	5	498
umbellata	5	498
Iceland poppy	22	364
Ice plant	14	624
Ichthyomethia piscipula	9	233
Icica meptaphylla	26	202
Ilex	2	112
	22	183
	29	403
glabra	15	139
lævigata	29	403
paraguayensis	18	424
verticillata	29	403
Illicium anisatum	25	489
Impatiens	22	180
biflora	16	49
Inaja palm	14	733
	21	217
Indâjá palm	2	520
Indian bean	6	43
	15	28
bread root	15	28
cress	8	182
hemp	9	229
mahogany	18	137
mallow	18	168
mulberry	19	552
pipe	15	32
tobacco	15	33
turnip	15	32
	15	573
Indigo	15	66
Indigofera	9	453
Inga	13	520
Inkberry	15	139
Inocarpus	15	146

Seed producing plants, etc.— cont'd	Vol.	Page
Inodes palmetto	22	185
Inodorus	18	608
Inpatiens palleda	16	49
Instia	27	90
bejugo	27	90
Ipecac	15	303
Ipecacuanha	15	303
Ipomœa	11	392
	15	304
	22	182
Iriartea	15	323
Iridaceæ	15	323
Iridales	22	185
	22	186
Iris	15	325
Irises	22	185
Iris family	15	324
florentina	15	325
fœtidissima	15	325
germanica	15	325
lævigata	15	325
persica	15	325
plants	22	185
prismatica	15	325
pseudacorus	15	325
susiana	15	325
versicolor	15	325
xiphioides	15	325
Ironbark tree	15	389
Ironweed	15	389
Ironwood	15	389
Irvingia barteri	9	119
Isatis tinctoria	29	434
Isonandra gutta	13	581
Ivy	15	568
Ivory palm	15	568
Ixia	15	325
Jaborandi	15	571
Jaca	15	572
Jacaranda	15	572
ovalifolia	13	425
Jack	15	572
in-the-pulpit	15	32
	15	573
	22	185
tree	15	572
Jamaica dogwood	9	233
plum	25	429
Japanese black pine	22	98
iris	15	325
ivy	15	568
mint	19	212
red pine	22	98
varnish tree	25	623
Japan lily	17	438
plum	17	655
Jasmine	15	750
Jatropha	15	753
Jeffersonia diphylla	27	228
Jerusalem artichoke	12	665
cherry	16	32
oak	13	60
thorn	21	332
Jessamine	15	750
Jewel weed	16	49
Jew's mallow	18	168
Jimson weed	8	491
Joannesia	16	150
princeps	16	150
Job's tear	16	152
Joint fir	22	178
Jonesia asoca	2	401
Jubæa	16	227
Judas tree	16	230
Juglandaceæ	16	239
	28	243
Juglans	22	183
cinerea	11	471
nigra	11	471

Seed producing plants, etc.— cont'd	Vol.	Page
Jujube	16	241
Jumping beans	16	246
Juncus effusus	23	780
June grass	4	125
Juniper	16	250
Juniperaceæ	16	250
Juniper barbodensis	16	250
communis	16	250
oxycedrus	16	250
procera	16	250
Junipers	22	179
Juniperus	22	179
virginiana	6	160
	11	473
	16	250
Jupati	16	252
Kakaroli	16	280
Kalmia	17	107
Kanari	16	289
Kambodja	16	286
Kangaroo grass	2	567
	16	293
Kauri	16	322
pine	2	135
Kenilworth ivy	15	568
	26	658
Kentia belmoriana	25	217
fosteriana	21	217
Kentucky blue grass	4	125
coffee tree	13	591
	16	372
Khya senegalensis	18	137
	27	88
Kickxia	27	93
King nut	14	168
	16	439
Klopstockia cerifera	29	119
Knapweed	6	199
Knotweed	22	181
Kœmsferi	2	687
Kongo pea	21	436
Krameria	23	228
Kudumba	5	131
Kumquat	16	555
Kunzea corifolia	26	309
Labiatæ	24	215
	25	468
Laburnum, golden-chain or bean-tree	16	624
Laceleaf	17	98
Lacinaria	16	634
Lachinaria spicata	9	40
Lactuca	22	184
Lacythis ollaria	24	292
zabucayo	24	292
Lady's fingers	16	646
mantle	16	646
slipper	16	646
	22	186
smock	8	290
Lady Washington geraniums	21	481
Lælia	20	750
Lagetta lintearia	11	475
Lamb kill	24	676
Lamb's quarters	16	675
	22	181
	23	96
Lamiaceæ	11	392
	22	182
Lamiales	22	179
	22	182
Laminaria	22	215
Lamium	20	97
Landolphia	15	25
	27	93
Laportea	11	475
Larch	16	746
Larches	22	179

Seed producing plants, etc.— cont'd	Vol.	Page
Large	22	253
Larix	11	472
	16	746
	22	179
decidua	16	747
laricina	11	473
	16	746
Larkspurs	16	750
Latania borbonica	21	217
commersonii	21	217
Lathyrus	16	764
latifolius	21	436
maritimus	21	436
odoratus	21	436
sativus	28	46
Latticeleaf	17	98
Lattice plant	17	98
Lauraceæ	9	219
	11	163
	17	107
	25	653
	27	91
Laurel	17	107
Laurus nobilis	26	126
Lavender	17	118
Lechea	6	699
Lecythidaceæ	27	90
Lecythis	27	91
Lee Chee	17	505
Leek	17	229
Legume	17	257
Leguminosæ	4	310
	6	668
	11	145
	13	591
	17	257
	24	290
	25	653
	27	89
	27	90
Lemnaceæ	9	381
	22	184
Lemon grass	17	281
vine	3	230
Lentil	17	292
Lent lily	19	705
Leopard flower	4	39
wood	25	144
Leopoldinia piassaba	6	565
Lepidium	17	307
Leptospermum	26	309
ericoides	26	309
lanigerum	26	309
scoparium	26	309
Letter wood	25	144
Leucocrinum montanum	25	158
Leucojum	25	151
Leverwood	15	389
Levisticum	17	693
	27	267
Lianas	17	344
Libi-divi	9	198
Licuala	21	216
Lignum vitæ	28	152
Ligustrum	22	612
Lilac	17	435
	22	181
Liliaceæ	2	407
	4	572
	6	573
	7	235
	9	290
	17	436
	24	655
	27	64
	27	35
	29	672
Liliales	22	184
	22	185
Lilies, the	22	184

Seed producing plants, etc.— cont'd	Vol.	Page
Lilium	22	178
	22	184
Lily	17	437
	22	178
family	17	436
of-the-valley	17	438
	22	184
Lime	17	441
Linaria canadensis	26	658
Linaria cymbalaria	15	568
	28	253
linaria	26	657
triornithophora	26	658
Linden	17	456
	22	180
Liquid ambar	17	497
Liquidambar orientale	26	126
styraciflua	17	733
	26	126
Liriodendron tulipifera	11	472
	17	733
	27	135
	29	477
Lisbania aculeata	9	53
Litchi	17	505
Lithospernaum	13	484
Listea geniculata	17	107
Live-for-ever	17	527
Loasales	22	182
Lobelia	17	552
	22	184
cardinalis	5	602
Locust	17	588
Lodoicea callipyge	11	476
	21	217
Lodoicea sechellarum	24	682
Loganiaceæ	4	677
	17	597
	20	524
	25	410
	25	743
Logwood	17	611
Lolium italicum	13	156
perenne	13	156
Lombardy poplar	22	362
Longiflora	26	658
Lonicera	22	183
Loofah, Egyptian	17	649
Loosestrife	17	652
Lophophora Williamsii	21	700
Loquat	17	655
Loranthus europæus	19	262
odoratus	19	262
Lotophagi	16	241
Lotus	22	180
	27	36
Lousewort	17	691
Lovage	17	693
Loxopterygium lorentii	23	77
Luffa	17	649
Luguminosæ	23	695
Luma	19	662
Lunaria rediviva	24	311
Lupine	17	748
Lupinus	17	748
Lycaste	20	751
Lychnis	17	770
Lycium	17	771
Lycopodium	17	771
Lyginopteridales	22	177
Lysimachia	17	652
Lythraceæ	17	653
Lythrum	17	653
Macahuba	18	15
Macaw tree	18	15
Machærium	27	89
Machura pomifera	21	15
Macoya	18	15
Madder	18	96
Madrona	2	147
	18	109

Seed producing plants, etc.— cont'd	Vol.	Page
Magnolia	18	130
	22	180
	27	267
acuminata	8	291
Magnoliaceæ	18	130
Magnolia coco	18	131
denudata	18	131
glauca	18	131
grandiflora	18	131
hypoleuca	18	131
liliflora	18	131
virginiana	26	126
Mahaleb	18	134
Maidenhair trees	22	178
Mäis del agua	28	73
Malabar cardamon	5	598
nightshade	3	305
	18	157
Malaceæ	17	655
Malcomia maritima	25	655
Mallee scrub	2	567
Mallow	18	168
alcea	18	168
crispa	18	168
moschata	18	168
rotundifolia	18	168
sylvestris	18	168
Malus	22	182
Malvaceæ	8	60
	10	478
	14	167
	18	168
	18	172
	25	623
Malvales	22	180
Mamey sapote	18	173
Mammee apple	18	179
Mandioc	5	709
	18	213
Mandrake	18	207
	22	271
Mangifera	22	183
indica	27	91
Mango	18	212
	22	183
	25	429
Mangrove	18	213
	22	182
Mani	18	214
Manihat glaziovii	17	93
	23	745
utilissima	5	709
Manna ash	18	231
Man-of-the-earth	18	192
Manzanita	18	251
Maple	18	259
	22	183
	25	802
Maqui	18	261
Maranta arundinacea	2	330
Mare's tail	18	277
Marguerite	18	281
Marigold	18	287
Mariposa lilies	18	293
	22	184
Marjoram	18	297
Marmalade tree	18	304
Markery	18	668
Marking nut	18	391
Marrubium	9	197
Marshal Niel rose	20	334
Marsh grass	7	680
Marsh-mallow	18	168
	18	324
Marshtrefoil	4	665
Marsileaceæ	18	330
Martynia	18	343
	27	282
Maryland pinkroot	5	647
Maximiliana regra	21	217

Seed producing plants, etc.— cont'd	Vol.	Page
Masdevallia	20	751
Masterwort	18	419
Matico	18	438
Matrimony vine	4	25
Matthiola incana	25	656
May apple	18	207
	22	271
May bush	8	161
May cherry	18	461
May weed	6	269
Meadow campion	18	476
fescue	18	475
grass	4	125
pink	18	476
rue	18	476
Medowsweet	18	476
Medicago	18	537
lupulina	24	656
sativa	18	537
Medick	18	587
Medlar	18	590
Meibomia	18	596
Melaleuca	26	309
axillaris	26	309
eucadendron	26	309
squarrosa	26	309
Melanorrhœa usitata	27	691
Melanthaceæ	6	646
Melia azedarach	6	548
	22	570
	26	155
	27	269
Meliaceæ	6	164
	6	580
	11	356
	18	604
	19	651
	26	698
	27	88
Melic grass	18	604
Melilot	18	604
Melocactus	18	606
Menispermaceæ	6	698
Mentha	22	182
Menthaceæ	9	291
	18	651
Mercury	18	668
Mesembryanthemum	18	287
Mesquite	18	690
Mexican tea	13	60
Michelia champaca	11	474
Mignonette	19	47
Mikania	19	52
Milk tree	19	109
Milk vetch	19	109
Milkweed	19	109
	22	181
Milkwort	19	109
Millet	19	125
Mimosa	19	145
Mimosaceæ	17	258
Mimulus	19	359
moschatus	19	651
Mimusops balata	27	93
elengi	24	291
Mint	19	212
	22	182
family	22	182
geranium	8	44
Miriliton	6	369
Miscanthus	10	573
Mistletoe	19	261
	22	183
Mitchella repens	21	358
Moccasin flower	16	646
	19	282
Mock orange	19	282
	21	735
Mocker nut	14	168
Moly	19	331

Seed producing plants, etc.— cont'd	Vol.	Page
Momordica	19	334
charantia	21	454
Moneywort	19	353
Monkey flour	19	359
Monocotyledoneæ	11	392
	22	184
Monocotyledones	4	310
	11	165
	19	364
	21	167
Monocotyls	22	222
Monosotyledonous plants	25	614
Monotropa	24	292
uniflora	15	32
Monterey cypress	8	368
Montezuma cypress	27	36
Moose wood	19	436
Moraceæ	4	452
	9	269
	11	291
	19	437
	23	745
	27	92
	27	93
Morichi	19	606
Moringa	11	474
Morning glory	19	466
	22	182
Morus alba	19	552
indica	19	552
nigra	19	552
rubra	19	552
Moss campion	24	810
pink	21	784
Motherwort	19	513
Mountain ash	19	528
flax	22	330
laurel	17	107
	17	530
	24	676
mahogany	18	137
	19	531
mint	19	212
sumac	26	9
white	22	97
Mouse ear	19	534
Moving plant	19	540
Muhlenbergia	13	158
diffusa	13	158
Mulberry	19	551
Mullein	19	555
Muscari	14	534
Musk mallow	18	168
Musk wood	19	651
Murichi	19	606
Murumuru palm	2	452
Musa	22	186
Musaceæ	19	613
	25	728
	27	17
Muscætoxicum	6	646
Mustard	19	655
family	22	180
Myoporaceæ	24	253
Myosotis	22	182
Myristica ocuba	20	575
Myrobalan plum	22	253
Myrocarpus	27	90
Myroxylon	27	90
balsamum	27	90
Myrrhis odorata	6	668
	19	662
Myrsiphyllum asparagoides	2	402
	25	110
Myrtaceæ	4	444
	18	137
	19	662
Myrtales	22	182
Myrtle	19	662
family	22	182

Seed producing plants, etc.— cont'd	Vol.	Page
Myrtus luma	19	662
microphylla	19	662
ugni	19	662
Narcissus	19	704
	22	185
	22	326
jonquilla	19	705
poeticus	19	705
pseudo-narcissus	2	407
	8	391
	19	705
tazetta	22	326
Narthecium ossifragum	2	407
Nasturtium	19	719
Nectandra	27	91
rodiæ	17	107
rodioei	11	475
	27	91
Negundo	20	57
Nelumbo	20	67
	22	180
	29	22
Neopieris mariana	25	470
Nepenthaceæ	22	121
Nepenthes	20	77
	22	121
Nepeta cataria	6	105
Nephelium	20	77
	24	290
litchi	17	505
Nerium	22	181
	20	79
oleander	2	63
	20	658
Nettle	20	96
	22	180
Nettle tree	20	97
New Jersey tea	23	454
Nicaragua wood	20	309
Nicotiana	20	331
alata	26	658
rustica	20	331
tabacum	20	331
Nigella	20	337
Nigger-toe	4	444
Night-blowing cereus	5	131
	6	225
	20	339
Nightshade	20	341
Nimble will	13	158
Nine bark	20	351
Nipa	20	367
frutescens	26	667
fruticans	11	476
	20	367
Norfolk Island pine	2	135
Norway spruce	11	230
	29	477
Nuphar	20	500
Nutmeg geranium	21	481
Nut pines	22	97
Nyctaginaflora	21	698
Nymphæa	2	107
Nymphæaceæ	20	67
	20	500
	20	525
	28	73
	29	22
caerulea	20	67
nelumbo	20	67
Nyssa	20	526
	27	166
aquatica	27	166
ogeche	27	166
sylvatica	27	166
Oak	20	529
	20	530
	22	183
apple	20	527
tree pruner	20	530

Seed producing plants, etc.— cont'd	Vol.	Page
Ochroma lagopus	11	474
	27	92
Ocote	20	573
Ocotea	20	573
bullata	20	573
cuplularis	20	573
fœtens	20	573
Odontoglossum	20	586
	20	750
alexandræ	20	586
crispum	20	586
Œnothera	20	594
	22	182
biennis	22	579
Ogeechee lime	27	166
Olacaceæ	29	600
Oldenlandia umbellata	6	369
	24	668
Old maid's pink	4	329
Old man's beard	12	110
Olea	22	181
Oleaceæ	22	181
	22	612
Oleander	20	658
	22	181
Olearia argophylla	19	651
Oleaster, or silverberry	20	659
Olive	22	181
family	22	181
Ombu tree	20	681
Omphalobium lamberti	29	691
Oncidium	20	750
Onopordon	26	568
Opium poppy	22	180
	22	364
wild	20	712
Opulasta opulifolius	20	351
Opuntia	22	569
engelmanni	22	570
ficusindica	22	570
fulgida	22	570
tuna	22	570
vulgaris	22	570
Orchard grass	8	389
	22	185
Orchid	20	749
Orchidaceæ	11	393
	22	186
Orchidales	22	186
Orchids	22	186
Orchis	20	751
	22	186
morio	24	181
Ordeal bean	5	153
Oregon pine	29	477
Oreodaphne fœtida	25	653
Oreodoxa oleracæa	11	476
regia	11	476
	21	217
Oriental plane	22	151
poppy	22	364
Origanum dectamnus	9	197
Ornamental grasses	13	160
Ornithogalum	25	489
Orobranche	22	182
Orpine	24	526
Oryza	22	185
Osage orange	21	15
Osier	21	20
Osmanthers	21	22
Oswego tea	21	39
Otaheite apple	25	429
Ovobanchaceæ	21	8
Oxalis	21	70
	22	180
	25	266
acetosella	21	70
	24	656
violacea	21	70

Seed producing plants, etc.— cont'd	Vol.	Page
Oxeye	21	69
daisy	18	282
	21	69
Oxlip	22	579
Oxycoccus	22	181
	27	635
erythrocarpus	27	635
Oxydendum arboreum	25	266
Oyster plant	21	81
Pacay	21	86
Pacific coast plum	22	253
Pæonia	21	550
albiflora	21	94
montan	21	559
officinalis	21	94
	21	559
tenuifolia	21	94
Pæony	21	94
montan	21	94
Pagonia	22	186
Pahudia rhomboidea	11	474
	27	90
Palaquium	27	93
Palas	9	52
Palmaceæ	21	216
Palmæ	27	93
Palmetto	21	216
	22	183
Palms	21	216
	22	185
Palmyra palm	21	217
Pampas grass	21	221
Panama-hat palm	21	217
Panax	22	183
Pandanaceæ	24	451
odoratissimus	24	451
utilis	24	451
veitchii	24	451
Pandanus	24	451
odoratissimus	27	268
utilis	11	475
Panicularia	13	159
	26	126
Panicum	13	159
amarum	13	159
capillare	13	159
crus-galli	13	155
maximum	13	159
miliaceum	19	125
miliaceum	13	155
proliferum	13	159
sanguinale	11	221
	13	157
virgatum	13	159
Pansy	21	248
Papaver	22	180
	22	364
Papaveraceæ	22	180
	22	364
Papaverales	22	180
Papaya	22	180
Papyaceæ	5	611
Paper birch	3	725
mulberry	19	572
white	19	705
Papyrifera	23	488
Para nut	4	444
palm	21	217
Paradise nuts	24	292
tree	22	570
Paraiso tree	22	570
Parashorea	27	90
Parasol fir	27	268
Paris daisy	18	282
Parkinsonia	21	332
aculeata	21	332
microphylla	21	332
torreyana	21	332
Paromychia	21	341
Parrot's bill	21	436
Parsley	6	167

Seed producing plants, etc.— cont'd	Vol.	Page
Parthenium argentatum.	13	521
	15	25
Parthenocissus quinquefolia	15	568
	28	128
tricuspidata	15	568
Partridge berry	21	358
Paspalum	13	159
	21	367
compressum	13	159
dilatatum	13	159
distichum	13	159
Pasque flower	21	367
Passiflora	21	370
	22	180
Passifloraceæ	21	370
Passion flower	21	370
	22	180
Pastinaca	22	183
Paucifolia	23	745
Paullinia	26	45
cupana	24	290
Paulownia	21	421
Pawn	3	589
Payena	27	93
Peanut	21	451
Pear, balsam	21	454
blight	11	233
Pedicularis	21	465
Pelargonium	21	481
	22	180
angulosum	21	481
cucullatum	21	481
grandiflorum	21	481
graveolens	21	481
odoratissimum	21	481
peltatum	21	481
radula	21	481
Peltogyne	27	90
Pencil tree	21	499
Pennisetum spicatum	21	457
typhoideum	19	125
Pensée	21	249
Pentacme	27	90
Pentacrinus	8	204
Pentadesma butyracea	26	230
Pentstemon	21	556
barbatus	21	557
campanulátus	21	557
cobæa	21	557
confertus	21	557
glaber	21	557
grandiflórus	21	557
hartwegi	21	557
lævigatus	21	557
ovâtus	21	557
Peony	21	559
Peppergrass	8	182
Peppermint	19	212
Pepper tree	22	570
wood	21	565
Peristeria	20	751
elata	9	284
	25	420
Periwinkle	21	598
	22	181
Persea americana	27	91
borbonia	17	107
gratissima	17	107
Persian iris	15	325
lilac	22	570
Persicaria hydropiper	25	109
Persimmon	22	181
Petrospermum rubiginosum	16	398
Petrospermum suberifolium	16	398
Petunia	21	698
coronarius chinensis.	21	735
parviflora	21	698
violacea	21	698

Seed producing plants, etc.— cont'd	Vol.	Page
Peyote	21	700
Phaca	28	46
Phalænopsis	20	751
Phalaris	13	159
	21	704
	23	296
Phalaris arundinacea	13	159
canariensis	5	480
	13	159
Phanerogamæ	4	309
Phanerogamia	24	527
Phanerogams	2	107
	21	707
Phaseolus	22	182
polystachyus	16	401
Pheasant's eye	21	717
eye, pink	22	102
Philadelphus	21	735
Philippine island pine	22	98
Philotria	22	185
Phleum	21	784
	22	185
pratense	13	154
Phlox	21	784
	22	182
drummondii	21	784
family	22	182
subulata	21	784
Phœnix	22	184
dactylifera	22	185
	26	667
sylvestris	21	217
	26	667
Phoradendron	22	183
Phormium tenax	3	320
Phyllostachys	22	185
Phylum cycadophyta	22	179
Physalis	13	492
alkekengi	29	403
francheti	29	403
Phytelephas	27	93
macrocarpa	11	476
Phytolaccaceæ	22	285
Piassaba palm	2	520
Picea	11	471
	22	179
excelsa	29	477
nigra	29	477
rubens	11	478
	17	733
Picotee	22	102
Picraena excelsa	11	474
Pigeon pea	21	436
	22	80
Pignut	14	168
Pigweed	13	60
	22	181
Pilocarpus pennatifolius.	15	571
Pilot plant	22	89
Pimenta	1	428
	22	182
Pimpernel	22	91
Pinaceæ	7	520
	27	92
Pinang	3	589
Pinanga	21	216
Pinaster	22	98
Pindóva palm	2	520
Pine	22	96
	22	179
Pineapple	8	235
	22	99
Pine tree	22	177
Pinguicula vulgaris	15	160
Pinks	22	102
	22	181
Pinoideæ	22	178
Pinon	22	97
Pinus	11	229
	22	177
	22	179

Seed producing plants, etc.— cont'd	Vol.	Page
Pinus	27	92
	27	206
arizonica	22	98
ayacahuite	22	98
cembra	22	99
cubensis	22	97
densiflora	22	98
echinata	17	731
	22	97
edulis	22	97
excelsa	22	98
halepensis	22	97
insularis	22	98
lambertiana	17	732
	22	97
laricio	22	97
longifolia	22	98
mitis	22	97
	29	477
monophylla	22	97
montezumæ	22	98
monticola	17	732
	22	97
palustris	17	731
	22	97
	29	477
parryana	22	97
pinaster	22	98
pinea	22	98
ponderosa	22	97
resinosa	22	97
	29	477
strobus	11	471
	11	478
	17	732
	22	97
	29	477
sylvestris	22	97
	24	427
	29	476
tæda	22	97
thunbergi	22	98
Piperaceæ	2	670
Piper æthiopicum	29	600
methysticum	2	670
Pipewort	22	112
Pippal	22	113
Pippin	22	113
Pippul	21	469
Pipsisewa	22	113
Pipul	21	469
Pirus	23	47
Piscidia erythrina	11	474
Pishamin	8	490
Pistachia lentiscus	18	419
Pistachio	22	118
Pistacia	22	118
vera	22	118
Pitcher plants	15	160
	22	127
Pithecolobium	25	157
acle	11	474
saman	23	181
Plane	22	151
Planera aquatica	10	259
Plane tree	26	155
Plantaginaceæ	22	159
Plantago	22	159
	22	181
Plantain	22	159
	22	181
Plantanus	22	151
Plantanaceæ	22	151
Plantanus occidentalis	22	151
	26	155
orientalis	22	151
racemosa	22	151
wrightii	22	151
Pleurisy root	22	248
Plowrightia morbosa	22	253

Seed producing plants, etc.— cont'd	Vol.	Page
Myrtus luma	19	662
microphylla	19	662
ugni	19	662
Narcissus	19	704
	22	185
	22	326
jonquilla	19	705
poeticus	19	705
pseudo-narcissus	2	407
	8	391
	19	705
tazetta	22	326
Narthecium ossifragum	2	407
Nasturtium	19	719
Nectandra	27	91
rodiæ	17	107
rodioei	11	475
	27	91
Negundo	20	57
Nelumbo	20	67
	22	180
	29	22
Neopieris mariana	25	470
Nepenthaceæ	22	121
Nepenthes	20	77
	22	121
Nepeta cataria	6	105
Nephelium	20	77
	24	290
litchi	17	505
Nerium	22	181
	20	79
oleander	2	63
	20	658
Nettle	20	96
	22	180
Nettle tree	20	97
New Jersey tea	23	454
Nicaragua wood	20	309
Nicotiana	20	331
alata	26	658
rustica	20	331
tabacum	20	331
Nigella	20	337
Nigger-toe	4	444
Night-blowing cereus	5	131
	6	225
	20	339
Nightshade	20	341
Nimble will	13	158
Nine bark	20	351
Nipa	20	367
frutescens	26	667
fruticans	11	476
	20	367
Norfolk Island pine	2	135
Norway spruce	11	230
	29	477
Nuphar	20	500
Nutmeg geranium	21	481
Nut pines	22	97
Nyctaginaflora	21	698
Nymphæa	2	107
Nymphæaceæ	20	67
	20	500
	20	525
	28	73
	29	22
caerulea	20	67
nelumbo	20	67
Nyssa	20	526
	27	166
aquatica	27	166
ogeche	27	166
sylvatica	27	166
Oak	20	529
	20	530
	22	183
apple	20	527
tree pruner	20	530

Seed producing plants, etc.— cont'd	Vol.	Page
Ochroma lagopus	11	474
	27	92
Ocote	20	573
Ocotea	20	573
bullata	20	573
cuplularis	20	573
fœtens	20	573
Odontoglossum	20	586
	20	750
alexandræ	20	586
crispum	20	586
Œnothera	20	594
	22	182
biennis	22	579
Ogeechee lime	27	166
Olacaeæ	29	600
Oldenlandia umbellata	6	369
	24	668
Old maid's pink	4	329
Old man's beard	12	110
Olea	22	181
Oleaceæ	22	181
	22	612
Oleander	20	658
	22	181
Olearia argophylla	19	651
Oleaster, or silverberry	20	659
Olive	22	181
family	22	181
Ombu tree	20	681
Omphalobium lamberti	29	691
Oncidium	20	750
Onopordon	26	568
Opium poppy	22	180
	22	364
wild	20	712
Opulasta opulifolius	20	351
Opuntia	22	569
engelmanni	22	570
ficusindica	22	570
fulgida	22	570
tuna	22	570
vulgaris	22	570
Orchard grass	8	389
	22	185
Orchid	20	749
Orchidaceæ	11	393
	22	186
Orchidales	22	186
Orchids	22	186
Orchis	20	751
	22	186
morio	24	181
Ordeal bean	5	153
Oregon pine	29	477
Oreodaphne fœtida	25	653
Oreodoxa oleracæa	11	476
regia	11	476
	21	217
Oriental plane	22	151
poppy	22	364
Origanum dectamnus	9	197
Ornamental grasses	13	160
Ornithogalum	25	489
Orobranche	22	182
Orpine	24	526
Oryza	22	185
Osage orange	21	15
Osier	21	20
Osmanthers	21	22
Oswego tea	21	39
Otaheite apple	25	429
Ovobanchaceæ	21	8
Oxalis	21	70
	22	180
	25	266
acetosella	21	70
	24	656
violacea	21	70

Seed producing plants, etc.— cont'd	Vol.	Page
Oxeye	21	69
daisy	18	282
	21	69
Oxlip	22	579
Oxycoccus	22	181
	27	635
erythrocarpus	27	635
Oxydendum arboreum	25	266
Oyster plant	21	81
Pacay	21	86
Pacific coast plum	22	253
Pæonia	21	559
albiflora	21	94
moutan	21	559
officinalis	21	94
	21	559
tenuifolia	21	94
Pæony	21	94
moutan	21	94
Pagonia	22	186
Pahudia rhomboidea	11	474
	27	90
Palaquium	27	93
Palas	9	52
Palmaceæ	21	216
Palmæ	27	93
Palmetto	21	216
	22	185
Palms	21	216
	22	185
Palmyra palm	21	217
Pampas grass	21	221
Panama-hat palm	21	217
Panax	22	183
Pandanaceæ	24	451
odoratissimus	24	451
utilis	24	451
veitchii	24	451
Pandanus	24	451
odoratissimus	27	268
utilis	11	475
Panicularia	13	159
	26	126
Panicum	13	159
amarum	13	159
capillare	13	159
crus-galli	13	155
maximum	13	159
miliaceum	19	125
miliaceum	13	155
proliferum	13	159
sanguinale	11	221
	13	157
virgatum	13	159
Pansy	21	248
Papaver	22	180
	22	364
Papaveraceæ	22	180
	22	364
Papaverales	22	180
Papaya	22	180
Papyaceæ	5	611
Paper birch	3	725
mulberry	19	552
white	19	705
Papyrifera	23	488
Para nut	4	444
palm	21	217
Paradise nuts	24	292
tree	22	570
Paraiso tree	22	570
Parashorea	27	90
Parasol fir	27	268
Paris daisy	18	282
Parkinsonia	21	332
aculeata	21	332
microphylla	21	332
torreyana	21	332
Paromychia	21	341
Parrot's bill	21	436
Parsley	6	167

Seed producing plants, etc.— cont'd	Vol.	Page
Parthenium argentatum.	13	521
	15	25
Parthenocissus quinquefolia	15	568
	28	128
tricuspidata	15	568
Partridge berry	21	358
Paspalum	13	159
	21	367
compressum	13	159
dilatatum	13	159
distichum	13	159
Pasque flower	21	367
Passiflora	21	370
	22	180
Passifloraceæ	21	370
Passion flower	21	370
	22	180
Pastinaca	22	183
Paucifolia	23	745
Paullinia	26	45
cupana	24	290
Paulownia	21	421
Pawn	3	589
Payena	27	93
Peanut	21	451
Pear, balsam	21	454
blight	11	233
Pedicularis	21	465
Pelargonium	21	481
	22	180
angulosum	21	481
cucullatum	21	481
grandiflorum	21	481
graveolens	21	481
odoratissimum	21	481
peltatum	21	481
radula	21	481
Peltogyne	27	90
Pencil tree	21	499
Pennisetum spicatum	21	457
typhoideum	19	125
Pensée	21	249
Pentacme	27	90
Pentacrinus	8	204
Pentadesma butyracea	26	230
Pentstemon	21	556
barbatus	21	557
campanulátus	21	557
cobæa	21	557
confertus	21	557
glaber	21	557
grandiflórus	21	557
hartwegi	21	557
lævigatus	21	557
ovátus	21	557
Peony	21	559
Peppergrass	8	182
Peppermint	19	212
Pepper tree	22	570
wood	21	565
Peristeria	20	751
elata	9	284
	25	420
Periwinkle	21	598
	22	181
Persea americana	27	91
borbonia	17	107
gratissima	17	107
Persian iris	15	325
lilac	22	570
Persicaria hydropiper	25	109
Persimmon	22	181
Petrospermum rubiginosum	16	398
Petrospermum suberifolium	16	398
Petunia	21	698
coronarius chinensis.	21	735
parviflora	21	698
violacea	21	698

Seed producing plants, etc.— cont'd	Vol.	Page
Peyote	21	700
Phaca	28	46
Phalænopsis	20	751
Phalaris	13	159
	21	704
	23	296
Phalaris arundinacea	13	159
canariensis	5	489
	13	159
Phanerogamæ	4	309
Phanerogamia	24	527
Phanerogams	2	107
	21	707
Phaseolus	22	182
polystachyus	16	401
Pheasant's eye	21	717
eye, pink	22	102
Philadelphus	21	735
Philippine island pine	22	98
Philotria	22	185
Phleum	21	784
	22	185
pratense	13	154
Phlox	21	784
	22	182
drummondii	21	784
family	22	182
subulata	21	784
Phœnix	22	184
dactylifera	22	185
	26	667
sylvestris	21	217
	26	667
Phoradendron	22	183
Phormium tenax	3	320
Phyllostachys	22	185
Phylum cycadophyta	22	179
Physalis	13	492
alkekengi	29	403
francheti	29	403
Phytelephas	27	93
macrocarpa	11	476
Phytolaccaceæ	22	285
Piassaba palm	2	520
Picea	11	471
	22	179
excelsa	29	477
nigra	29	477
rubens	11	478
	17	733
Picotee	22	102
Picraena excelsa	11	474
Pigeon pea	21	436
	22	80
Pignut	14	168
Pigweed	13	60
	22	181
Pilocarpus pennatifolius.	15	571
Pilot plant	22	89
Pimenta	1	428
	22	182
Pimpernel	22	91
Pinaceæ	7	520
	27	92
Pinang	3	589
Pinanga	21	216
Pinaster	22	98
Pindóva palm	2	520
Pine	22	96
	22	179
Pineapple	8	235
	22	99
Pine tree	22	177
Pinguicula vulgaris	15	160
Pinks	22	102
	22	181
Pinoideæ	22	178
Pinon	22	97
Pinus	11	229
	22	177
	22	179

Seed producing plants, etc.— cont'd	Vol.	Page
Pinus	27	92
	27	206
arizonica	22	98
ayacahuite	22	98
cembra	22	98
cubensis	22	97
densiflora	22	98
echinata	17	731
	22	97
edulis	22	97
excelsa	22	98
halepensis	22	97
insularis	22	98
lambertiana	17	732
	22	97
laricio	22	97
longifolia	22	98
mitis	22	97
	29	477
monophylla	22	97
montezumæ	22	98
monticola	17	732
	22	97
palustris	17	731
	22	97
	29	477
parryana	22	97
pinaster	22	98
pinea	22	98
ponderosa	22	97
resinosa	22	97
	29	477
strobus	11	471
	11	478
	17	732
	22	97
	29	477
sylvestris	22	97
	24	427
	29	476
tæda	22	97
thunbergi	22	98
Piperaceæ	2	670
Piper æthiopicum	29	600
methysticum	2	670
Pipewort	22	112
Pippal	22	113
Pippin	22	113
Pippul	21	469
Pipsisewa	22	113
Pipul	21	469
Pirus	23	47
Piscidia erythrina	11	474
Pishamin	8	490
Pistachia lentiscus	18	419
Pistachio	22	118
Pistacia	22	118
vera	22	118
Pitcher plants	15	160
	22	127
Pithecolobium	25	157
acle	11	474
saman	23	181
Plane	22	151
Planera aquatica	10	259
Plane tree	26	155
Plantaginaceæ	22	159
Plantago	22	159
	22	181
Plantain	22	159
	22	181
Plantanus	22	151
Plantanaceæ	22	151
Plantanus occidentalis	22	151
	26	155
orientalis	22	151
racemosa	22	151
wrightii	22	151
Pleurisy root	22	248
Plowrightia morbosa	22	253

Seed producing plants, etc.— cont'd	Vol.	Page
Plum	22	252
Plumbaginaceæ	22	256
capensis	22	256
rosea	22	256
Plumbago	22	256
Plume poppy	4	142
Plumeria acutifolia	16	286
Plumeria rubra	25	144
Plum gouger	22	254
Plum knot	22	253
Poa	13	159
annua	13	159
arachnifera	13	159
Poaceæ	22	185
compressa	13	156
	13	157
lævigata	13	159
pratensis	13	155
Poales	22	185
Pocan	22	285
Podocarpus	11	474
	22	179
	22	271
cupressina	22	271
elata	22	271
elongata	29	629
totara	26	715
Podophyllum	22	271
peltatum	18	207
Poet's narcissus	19	705
Poincinia	22	280
Poinciana regia	11	474
Poinsettia	22	281
pulcherrima	22	281
Poison ivy	15	568
	15	569
oak	15	568
Pokeberry	22	285
Pokeroot	22	285
Pokeweed	22	285
Polemoniaceæ	21	784
	22	182
Polemoniales	22	181
Polemonium cœruleum	27	647
Polianthes suberosa	22	326
Polyanthus	22	326
narcissus	19	705
Polycodium stamineum	27	635
Polygala	22	329
Polygalæ	23	228
Polygonaceæ	9	216
	23	478
	24	476
Polygonatum multiflorum	25	244
Polygonum	22	181
orientale	22	583
Polypetalæ	4	310
Polyporaceæ	12	172
Pomegranate	22	182
	22	340
	22	346
Pomme de cythele	25	429
Pond spice	17	107
Pondweeds	22	184
Pontederia	22	350
Pontederiaceæ	22	350
Poplar	22	181
	22	362
Poppy	12	129
	22	364
Poppy family	22	180
Populus	22	181
	22	362
	24	189
balsamifera	26	202
grandidentata	2	404
tremuloides	2	404
Porcupine grass	25	414

Seed producing plants, etc.— cont'd	Vol.	Page
Porteranthus stipulatus	4	366
trifoliatus	4	366
Portulaca	22	181
	22	419
Portulacaceæ	22	419
Potamogeton	22	784
Potato	22	182
Potentilla	6	688
	22	447
fruticosa	22	447
tridentata	22	447
Pot marjoram	18	297
Prangos	27	267
Pratensis	13	156
Prayer beads	22	515
Prickley ash	22	569
pear	22	569
Pride of China	22	570
of China tree	27	268
of India	22	570
Primrose	22	579
family	22	181
	22	182
Primula	22	181
	22	579
auricula	2	554
elatior	22	579
forbesi	22	579
imperialis	22	579
japonica	22	579
Primulaceæ	22	181
obconica	22	579
officinalis	22	579
sinensis	22	579
Primulales	22	181
Prince's feather	22	583
Privet	22	612
Prosopis juliflora	21	86
Pruning of the red raspberries, the	23	222
Prunus	22	182
	22	252
	22	714
	23	690
americana	22	253
angustifolia	22	253
angustifolia watsoni	22	253
caroliniana	17	107
cerasifera	22	253
domestica	22	253
hortulana	22	253
laurocerasus	6	418
	17	107
lusitanica	17	107
maritima	22	253
pumila	6	418
serotina	11	471
simonii	22	253
spinosa	22	253
	25	90
subcordata	22	253
triflora	22	253
Pseudopeziza trifolii	7	135
Pseudophœnix sargenti	21	216
Pseudotsuga douglasii	11	230
Pseudotsuga taxifolia	11	471
	17	732
	29	477
Psoralea Spp	21	436
Ptelea	24	65
Pteridospermeæ	22	177
Pterocarpus	11	474
	27	89
dalbergioides roxb	27	89
indicus	27	89
santalinus	24	253
Pteroxylon utile	25	145
Puccinia asparagi	2	403
Pudding berries	22	787
Pulsatilla patens	21	367
pulsatilla	21	367

Seed producing plants, etc.— cont'd	Vol.	Page
Pultenæa daphnoides	28	233
Pumpkin	22	800
Punica	22	182
granatum	22	340
Purple stramonium	8	491
thorn apple	8	491
Pyrethrum	23	42
aureum	23	43
roseum	23	42
Pyrola	29	403
Pyrus	23	47
	23	690
baccata	2	84
communis	21	452
malus	2	84
Quaker lady	23	78
Quarter vine	27	106
Quebracho	23	77
Queen Anne's lace	8	492
Queen-of-the-meadow	23	78
Quercitron	23	83
Quercus	22	183
Quercus	11	472
	20	529
	22	183
Quercus alba	17	733
	20	530
aquatica	20	530
ægilops	20	530
cocifera	16	378
	24	340
coccinea	20	530
ilex	20	530
lusitanica	20	530
macrocarpa	20	530
marylandica	4	36
nigra	20	530
pedunculata	20	527
prinus	20	530
pseudo suber	20	530
robur	20	530
rubra	17	733
	20	530
suber	7	696
tinctoria	9	453
virginiana	20	530
Quicken tree	19	528
Quickset	8	161
Quillaia	11	474
bark	23	90
saponaria	25	157
Quince	23	91
Ragwort	23	134
Rain tree	23	181
Ramiè	23	202
Rampion	23	204
Ranales	22	179
	22	180
	22	182
Ranunculaceæ	14	83
	14	109
	14	539
	16	750
	18	287
	21	367
	21	550
	22	184
	23	214
asiaticus	23	214
ficaria	23	214
Ranunculus	22	180
Raphanus	22	181
sativus	23	126
Raphia	21	217
	23	218
palm	21	217
vinifera	11	476
	26	667
Raspberry	23	221
Rattan	23	227
Rattle-box	8	243

Seed producing plants, etc.— cont'd	Vol.	Page
Rattlesnake weeds	14	8
Ravenala madagascariensis	27	17
Red bay	17	107
cedar	16	250
deal	22	92
gum	17	497
gum tree	23	281
haw	8	161
mulberry	19	552
pine	23	525
quebracho	23	77
raspberry	23	221
Redroot	22	505
Red seaweeds	22	168
top	22	185
Redwood	22	179
	24	576
of California	23	291
reproduction	23	291
Reed canary grass	23	296
Reine Marguerite	2	444
	18	282
Resedaceæ	9	452
	19	47
Reseda luteola	9	452
Reticulatus	18	608
Rhamnaceæ	6	631
	23	454
	29	716
Rhamnus	9	453
	25	454
cathartica	4	670
	24	290
frangula	9	233
	23	454
purshiana	5	696
	28	202
Rhea	23	202
Rheum	23	478
Rhexia virginica	8	584
Rhianthus crista galli	29	628
Rhizophora mangle	3	320
	27	92
Rhizophoraceæ	27	92
Rhodes grass	23	474
Rhododendron	23	476
catawbiense	23	476
maximum	8	134
	23	476
	23	477
ponticum	23	477
Rhodamnia trinervia	26	309
Rhus	22	183
	20	509
	23	478
coriaria	23	478
	26	9
cotinus	9	453
	23	478
	25	135
crenata	26	9
diversiloba	26	9
glabra	23	478
	26	9
hirta	26	9
rhodanthema	29	629
semialata	23	478
succedanea	23	478
toxicodendron	23	478
trilobata	26	9
typhina	23	428
vernicifera	23	478
	26	9
verniciflua	27	691
Ribes	22	182
rubrum	8	310
sanguineum	8	310
Richardia	22	184
	22	185

Seed producing plants, etc.— cont'd	Vol.	Page
Ricinus	22	180
communis	6	16
Rimu	23	525
Ringwood	5	288
Robinia	17	588
pseudacacia	9	453
	11	472
Rocambole	23	587
Rock elm	10	259
Rocket	23	599
Rock rose	22	180
Rosa	22	182
canina	9	229
Rosaceæ	4	366
	6	648
	9	229
	23	690
	23	698
	23	750
	25	418
	25	653
	25	721
Rosales	22	183
Rose	22	182
	23	678
geraniums	21	481
Roselle	25	266
Rose mallow	18	168
of Jericho	4	420
of Sharon	14	167
	23	694
root	24	526
wood	23	695
Round-leaved mint	19	212
Rowan tree	19	528
Royal palm	21	217
Rubber fig	23	746
Rubiaceæ	6	561
	6	678
	23	748
	29	498
	21	358
Rubiales	22	183
Rubus	4	409
	23	690
	23	750
fruticosus	4	39
occidentalis	23	221
phænicolasius	29	386
Rubbeckia hirta	21	69
Ruderal plants	23	753
Ruellia	23	755
tuberosa	25	144
Rumex	9	216
acetosella	25	266
aqualicus	9	216
hymenosepalus	5	480
Rununculaceæ	20	337
Russian thistle	13	60
	24	61
Rutaceæ	9	138
	9	196
	15	571
	16	555
	17	281
	22	569
	24	65
	29	687
Sabal	11	471
	24	77
	24	176
palmetto	21	216
Sabbatia	24	79
Saccharinus	18	608
Sacred fig	21	469
Safflower	24	104
Saffron	24	104
Sage	22	182
	24	108
Sage brush	24	108

Seed producing plants, etc.— cont'd	Vol.	Page
Sagittaria	24	109
chinensis	24	109
latifolia	24	109
Saguaro	6	225
Saint John's wort	22	180
	24	187
Salicaceæ	2	404
	22	362
	24	189
Salicornia	24	183
Salix	22	181
	22	362
	24	189
	29	350
viminalis	21	20
Sallowthorn	24	473
Salsola	24	197
tragus	24	61
kali	24	197
Sal tree	24	175
Salsify	21	81
Salvia	22	182
	24	215
argentea	24	108
officinalis	24	108
patens	24	108
pratensis	24	759
splendens	24	108
Sambuscus	22	188
Samphire	24	225
Samuella	29	672
Sandal wood	22	183
	24	252
Sand bur	24	250
plum	22	253
Sanguinaria canadensis	27	202
Sansevieria	24	271
Santalaceæ	24	252
Santalum	11	474
	22	183
	24	252
album	24	252
freycinetianum	24	253
pyrularium	24	253
Sapindaceæ	24	290
	25	145
Sapindales	22	183
Sapindus	11	474
	24	290
	25	157
marginatus	6	548
Sapium sebiferum	26	230
Sapodilla	22	181
	24	290
plum	24	290
Sapota	22	181
achras	19	712
Sapotaceæ	6	648
	13	581
	22	181
	24	291
	27	93
Sapucaia	24	292
Sapucaya	27	91
Saraca indica	11	474
Sarracencia	22	121
	24	306
Sarraceniaceæ	22	121
Sarracenia purpurea	15	160
Sarraceniales	22	180
Sassafras	11	471
sassafras	17	107
	22	180
	24	309
Satin flower	24	311
pod	24	311
wood	24	311
Savastana	13	159
odorata	26	126

Seed producing plants, etc.— cont'd	Vol.	Page
Saxifraga pennsylvanica	24	341
sarmentosa	28	253
virginiensis	24	341
Saxifragaeæ oppositifolia	24	341
Saxifrage	24	341
Scabiosa succisa	9	30
Scandix	6	668
Scanthaceæ	23	755
Scarlet oak	20	530
thorn	8	161
Scarzonera	24	358
Schaefferia frutescens	29	629
Schinopsis balansæ	27	91
lorentzii	27	91
Schizæa	24	375
pusilla	24	375
Schomburgkia	20	751
Sciadopitys verticillata	27	268
Scirpus	22	185
	24	423
cyperinus	24	424
lacustris	27	134
tatoea	27	134
Scolymus hispanicus	26	568
Scorpa hispanica	24	358
Scorzonera	24	427
Scotch elm	10	259
fir	24	427
pine, the	22	97
	24	427
Screw pine	13	756
	24	451
	27	268
Scripus cernuus	24	424
lacustris	24	424
tatora	24	424
Scrophulariaceæ	11	392
	11	567
	14	611
	21	465
	21	556
	24	456
	25	144
	25	385
	26	657
Scrophulariales	22	182
Scurfy pea	21	436
Scutellaria	25	78
Sea blites	13	60
buckthorn	24	473
cocoanut palm	21	217
kale	24	475
lily	8	204
pea	21	436
side grape	24	476
Sebastiana	16	246
Secale	22	185
	24	490
Sechium	24	510
edule	24	510
Sedges	22	185
Sedum	24	525
telephium	8	161
Seed plants	24	527
Semecarpus	24	546
anacardium	18	301
	24	546
Semper augustus	27	135
Sempervivium	24	525
acre	24	526
roseum	24	526
spectabile	24	526
telephioides	24	526
telephium	24	526
Seneca root	22	330
Senecio	23	134
	24	560
aureus	24	560
cruentus	6	686

Seed producing plants, etc.— cont'd	Vol.	Page
maritimus	9	430
mikanoides	15	568
vulgaris	24	560
Senega root	22	330
Sequoia	11	471
	22	179
	24	576
gigantea	18	293
	24	576
sempervirens	17	733
	23	291
	24	576
Serjania	26	45
Service berry	24	604
tree	24	605
Sesame	22	182
	24	606
Sesamum	22	182
indicum	24	606
Setaria	13	158
italica	19	125
Seychelles cocoanut	24	632
Shaddock	24	637
Shag bark	14	168
Shallot	24	654
Shamrock	24	656
Shaya root	24	668
Shea oak	2	567
Sheep laurel	24	676
She oak	24	669
Shepherd's purse	24	698
Shirt button plant	18	168
Shoe-string	22	505
Shorea	27	90
guiso	27	90
nigrosensis	27	90
polysperma	27	90
robusta	24	175
robusta	11	475
	27	90
Shortia	24	754
galacifolia	24	754
Short oats	20	533
Showy lily	17	438
Siberian coral lily	17	438
Side-saddle flowers	22	121
Silenaceæ	17	770
	21	341
	24	809
Silene	24	809
acaulis	24	810
armeria	24	810
caroliniana	24	809
noctiflora	24	809
nutans	24	809
virginica	24	809
	24	810
viscosa	24	809
vulgaris	24	810
Silk cotton tree	4	199
	25	6
Silphium	22	181
	22	184
Silphium perfoliatum	22	322
Silver pine	22	97
Silybum	25	20
Simaruba	11	474
Simarubaceæ	9	119
Simon plum	22	253
Sinningia	12	725
Sisyrinchium	15	325
Sium sisarum	25	77
	27	267
Skimmia	25	70
Skirret	25	77
Skull cap	25	78
Skunk cabbage	22	185
	25	79
Slash, the	22	97
Sloe	25	99

Seed producing plants, etc.— cont'd	Vol.	Page
Small leaved myrtle	19	662
Smart weed	25	109
Smilax	2	402
	13	427
	25	110
china	6	548
medica	24	306
officinalis	24	306
papyracea	24	306
rotundifolia	13	427
Smoke tree	23	478
	25	135
Smyrnium	27	267
Snake root	22	330
wood	25	144
Snap dragon	2	39
	25	144
weed	16	49
Sneeze weed	25	145
wort	25	146
Snow ball	13	523
berry	25	150
drop	25	151
flake	25	151
Soap berry	25	157
Solanaceæ	4	25
	17	771
	20	331
	20	341
	25	234
Solandra	27	106
Solanum	22	182
carolinense	20	97
	20	341
dulcamara	20	341
melongena	9	728
muricatum	18	607
nigrum	20	341
rostratum	24	250
sodomeum	2	89
Soldanella	25	237
Solidago	13	29
	22	184
bicolor	13	29
canadensis	13	29
	22	505
odora	13	29
rigida	13	29
	22	505
rugosa	13	29
sempervirens	13	29
serotina	22	505
speciosa	13	29
vigaurea	13	29
Solomon's seal	25	243
Sonchus	26	568
arvensis	26	568
asper	26	568
oleraceus	26	568
Sorbus americana	19	528
aria	24	605
aucuparia	19	528
domestica	24	605
scopulina	19	528
Sorghum	25	264
halapensis	13	156
vulgare	19	125
Sorrel	25	266
Souari nuts	25	268
Soursop	25	272
South American apricot	18	179
Sowbane	13	60
Sow thistle	25	319
Soy bean	25	319
Soymida febrifuga	18	137
Spanish bayonet	11	399
broom	25	348
elm	10	259
juniper	16	250
moss	25	358

Seed producing plants, etc.— cont'd	Vol.	Page
oyster plant	26	568
plum	25	429
Spartina	13	159
cynosuroides	13	159
Spartium junceum	25	348
Spathyema	22	185
fœtida	25	79
Spear grass	4	125
Spearmint	19	212
Specularia perfoliata	28	10
speculum	28	10
Speedwell	25	385
Spergula	25	461
Spermatophyta	4	309
	24	527
	26	295
Spermatophytes	25	614
Spice bush	25	404
Spider lily	16	762
	22	691
Spiderwort	25	410
Spigelia	25	410
Spinacia oleracea	25	410
Spindle tree	25	412
Spinifex	25	414
Spiny greasewood	13	60
Spiræa	13	698
	23	690
	25	418
tomentosa	13	698
Spirit plant	25	420
Spondias	25	429
Sporobolus	13	159
cryptandrus	13	159
wrightii	13	159
Spotted wintergreen	29	403
Spring lilies	22	184
Spruce	22	97
	22	179
	25	460
firs	11	230
	25	460
Spurge laurel	19	5
Spurry	25	461
Squash	22	183
	25	463
Squawberry	21	358
	25	464
Squaw huckleberry	25	464
Squirrel corn	25	467
Squirting cucumber	10	54
Stachys	25	468
Stagger bush	25	470
Staghorn sumac	23	478
Stangeria	4	80
Stanhopea	20	751
Stapelia	8	231
	25	488
	25	614
gigantea	2	380
Staphylea	4	50
Staphyleaceæ	4	50
Star anise	25	489
apple	25	489
of Bethlehem	25	489
grass	25	489
	27	283
leaved gum	17	497
thistle	25	491
Statice armenia	26	596
Stemless thistle	26	568
Stenotaphrum	13	159
dimidiatum	13	159
Stephanotis	25	616
floribunda	2	380
Sterculia	6	437
	11	474
acerifolia	11	475
lurida	26	155
platanifolia	25	623

Seed producing plants, etc.— cont'd	Vol.	Page
Sterculiaceæ	25	623
byttneriaceæ	7	189
Stewartia	25	644
Stinking iris	15	325
Stinkwood	25	653
Stipa	13	159
	25	653
leucotricha	13	160
vaseyi	13	160
viridula	11	75
Stitchwort	25	655
Stock	25	655
Stone pine	22	98
	25	685
Stratiotes aloides	14	560
Strawberry	22	181
	22	182
blite	13	60
guava	13	520
shrub	25	723
treè	2	147
Strelitzia	25	728
Streptocarpus	22	579
Strobilophyta	22	178
Strophanthus	25	741
Strychnos	25	743
nux vomica	20	724
Stump tree	13	591
Styracaceæ	25	759
Styrax	25	759
Sumac	22	183
	26	9
Sundew	15	160
	26	27
Sunflower	1	449
	22	184
	22	505
	26	37
Sunn hemp	11	167
Supple jack	26	45
Suwarro	25	268
Suwarrow	6	225
Swamp cypress	27	36
laurel	26	126
locust	29	23
magnolia	26	126
sassafras	18	131
Swedish clover	7	134
Sweet bay	17	107
	18	131
	26	126
birch	29	403
briar sponge	3	413
fern	26	126
flag	22	185
grass	26	126
gum	17	497
	26	126
marjoram	18	297
pea	21	436
	22	157
rocket	23	599
scented bedstraw	29	498
william	22	102
william catchfly	24	810
Swietenia mahogoni	11	474
	18	137
	27	88
Swiss pine	22	98
Sycamore	22	151
	26	155
maple	22	151
Sympetalæ	4	310
Symphoricarpus albus	25	150
Syringa	22	181
	26	193
Tabernæmontana utilis	8	134
Tacamahac	22	362
	26	201
Tacca	26	202

Seed producing plants, etc.— cont'd	Vol.	Page
pinnatifida	24	181
	26	202
Tænia	11	128
Talipot	26	225
palm	21	217
Tallow tree	5	497
	26	230
Tamarack	16	746
Tamarindus indica	11	475
Tamarisk	26	232
articulata	26	233
Tamus elephantines	9	138
Tanghin	26	242
Tanglefoot	14	305
Taro	22	185
Tartarian oats	20	533
Tayote	6	369
Taxaceæ	7	520
Taxaleæ	22	179
Taxodioidæ	24	576
Taxodium	24	576
distichum	8	368
	11	473
	17	732
	27	36
mucronatum	27	36
Taxus	22	179
	29	635
Teak	22	182
	26	318
Tea oil tree	25	158
Teasel	22	183
	26	318
Tea tree	26	309
Tecoma	27	92
	27	106
stans	27	106
Tecomaria capensis	27	106
Tectona	22	182
grandis	11	475
	26	318
Tecum palm	2	452
Terminalia	19	661
Testudinaria	9	138
elephantipes	26	714
Texas umbrella tree	22	570
Thalassia	14	560
Thalictrum	18	476
Thapsia	26	488
decipiens	26	488
garganica	26	488
Thea	22	180
Theobroma	7	189
Thesium linophyllum	26	658
Thespesia populnea	11	475
Thevetia neriifolia	27	106
Thistle	22	184
	26	568
Thorn apple	8	491
Thoroughwort	4	213
Thrift	26	596
Thuja occidentalis	2	146
Thuya	11	473
	22	179
Thyme	22	182
Thymeleaceæ	19	5
Thymus	22	182
vulgaris	26	604
Tick trefoil	3	444
Tigridia	15	325
Tilia	11	472
	22	180
	26	626
americana	29	477
Tiliaceæ	17	456
	25	653
	26	626
Tillandsia usneoides	25	358
Timinus	24	656
repens	24	656

Seed producing plants, etc. — cont'd	Vol.	Page
Toad flax	26	657
	26	658
Toddy palm	21	217
Tolfiedia	2	407
Tonca	26	687
Tonga	26	687
Tonka	26	687
Tonquin bean	26	687
Toon	26	698
Toona	26	698
	27	88
Toor pea	21	436
Tortoise plant	26	714
Totarra	22	271
	26	715
pine	22	271
Touch-me-not	16	49
	22	180
Toxylon pomiferum	11	473
	21	15
	29	629
Tradescantia	16	762
	22	691
	25	410
Tragopogon porrifolius	21	81
Trailing arbutus	17	107
myrtle	21	598
Traveler's tree	27	17
Tree-pæony	21	94
Tree of the sorrowful night	27	36
of Tule	27	36
Trefoil	27	36
Trema	11	475
Triandria digynia	24	490
Trichilia	27	88
moschata	19	651
Trifolium	1	133
	22	182
agrarium	7	134
alexandrinum	7	134
hybridum	7	134
incarnatum	7	134
medium	7	133
pratense	7	133
	24	656
procumbens	7	134
repens	7	134
Trigonophylla	26	658
Trillium	27	64
cernuum	27	64
erectum	27	64
grandiflorum	27	64
recurvatum	27	64
undulatum	27	64
sessile	27	64
viride	27	64
Triodia irritans	25	414
Triosteum perfoliatum	11	163
Triptolomæa	16	450
Triticum	22	185
	27	79
sativum vulgare	29	241
vulgare	27	79
Tritonia	15	325
Tropaeolaceæ	27	86
Tropæolum	27	86
majus	27	87
minus	27	87
peltophorum	27	87
peregrinum	27	87
tuberosum	27	86
Tropical forests	27	94
True clovers	7	133
Trumpet flowers	27	106
Tuberosa	9	494
Tsuga	11	471
	14	88
	22	179
canadensis	17	732
Tuberose	22	326

Seed producing plants, etc. — cont'd	Vol.	Page
Tucuma palm	2	452
Tulé	27	134
Tupelo	27	166
Tulipa	22	184
gesneriana	27	135
suaveolens	27	135
Tulips	22	184
	27	135
Tulip tree	27	135
Tumboa	22	178
Turkey corn	25	467
Turmeric	27	202
tree	27	202
Turpentine	27	206
Turtle head	21	557
	27	207
Tussilago	27	211
farfara	27	211
Twin leaf	27	228
Typha	27	240
Udo	27	251
Ulmaceæ campestris	10	259
fulva	10	259
parvifolia	10	259
racemosa	10	259
scabra	10	259
Ulmus	11	472
	22	180
alata	28	202
glabra	29	430
Umbellifer	6	668
	27	266
Umbrella palm	21	217
tree	27	267
Uncaria	27	269
gambier	9	452
Unicorn plant	27	282
root	27	282
Uniola	13	160
latifolia	13	160
paniculata	13	160
Upas tree	27	583
Uromyces trifolii	7	135
Urtica	22	180
argentea	20	97
cannabina	20	97
crenulata	20	96
dioica	3	320
	20	97
heterophylla	20	97
japonica	20	97
urens	20	97
urentissima	20	96
whitlavi	20	97
Urticaceæ	4	452
	20	96
	27	583
Utricularia	15	160
Uva grass	21	221
Vacciniaceæ	27	634
Vaccinium	14	467
stamineum	25	464
vitis-idæa	27	635
Vagnera racemosa	25	244
Valerian	27	647
Valeriana	27	647
Villarsia	28	91
Vallisneria	14	560
	22	185
	27	651
spiralis	2	105
Valonia oak	20	530
Vanda	20	751
Vanilla	22	186
Vanilla beans	22	186
Varnish tree	27	691
Vascular plants	22	207
Vateria indica	26	230
Vegetable oyster	21	81
pear	6	360

Seed producing plants, etc. — cont'd	Vol.	Page
Venetian sumac	9	453
	26	9
Venus' flytrap	9	134
	15	160
Venus of the forest	2	382
Venus' looking-glass	28	10
Veratrum	28	11
Verbena	22	182
	28	12
Verbenaceæ	22	182
	27	91
	28	12
	28	152
Verononia	15	389
Vetch	28	46
Vetiver	28	54
Viburnum	28	57
Vicia	28	46
Viciæ	6	668
Vicia sativa	26	268
Victoria	28	73
regia	28	75
Vinca	21	598
	22	181
herbacea	21	598
major	21	598
minor	21	598
rosea	21	598
Vincetoxicum	28	98
Viola	22	180
Violaceæ	21	248
	28	105
Viola tricolor	21	248
Violet	22	180
	28	105
wood sorrel	21	70
Viper's bugloss	28	109
Virgilia	28	115
Virginia creeper	15	568
	28	128
	28	146
cress	8	182
juniper	16	250
Viscum	22	183
album	19	261
Vitaceæ	15	568
	28	146
Vitex	11	474
	28	152
agnus castus	28	152
paviflora	27	91
Vitis	22	183
æstivalis	22	25
estivalis	13	144
labrusca	13	144
	22	25
riparia	13	144
	22	25
rupestris	13	144
sicyoides	6	548
vinifera	22	25
Vouacapoua americana	27	90
Waahoo	5	58
	28	202
Wahoo	28	202
Walbergia	23	746
Walking-stick palm	21	217
Wall flower	28	233
trees	28	234
Walnut	22	183
	29	243
Wandering Jew	28	253
Warfaring tree	14	304
	14	305
Washingtonia	6	668
longistylus	6	668
Watercress	8	182
Water elm	10	259
hemlock	29	20
	8	133
	14	88

Seed producing plants, etc. — cont'd	Vol.	Page
Water lily	29	22
locust	29	23
maize	28	73
mint	19	212
oak	20	530
pepper	25	109
plantain	22	178
	22	184
	29	26
platter	28	75
soldier	14	560
star grass	25	490
thyme	14	560
weed	22	185
yam	17	98
Wattles	29	112
Wax myrtle	5	497
Wayfaring tree	28	57
Weeping birch	3	724
Weld	9	452
Welwitschia	29	190
Wheat	29	241
Whistle wood	29	260
White cedar	22	570
Dutch or honeysuckle clover	7	134
heart	14	168
hellebore	14	84
	29	271
oak	20	530
pine	29	477
poplar	22	362
pumpkin	5	153
quebracho	23	77
sage	13	60
sycamore	26	155
thorn	14	9
Whitewood	17	456
Whorled mint	19	212
Wi-fruit	25	429
Wild allspice	17	107
carrot	8	492
celery	27	651
flowers	29	303
goose plum	22	253
iris	15	325
oats	20	533
pink	24	810
roses	22	505
tobacco	15	33
vetch	26	268
Willow	22	181
	29	350
Willows	22	362
Willughbeia	19	52
Wind flower	29	378
Wine berry	29	386
palm	21	217
Winterberry	15	139
	29	403
Winter cherry	16	32
	29	403
Wintergreen	29	403
Wistaria	29	429
chinensis	29	429
frutescens	29	429
Witch elm	29	430
hazel	22	182
	29	430
Woodroof	29	498
Woodruff	29	498
Wood sorrel	21	70
	22	180
Woody nightshade	4	25
Worm grass	5	647
Wormseed	13	60
	29	558
Wormwood	29	559
Wreath laurel	17	107
Wrightia	29	571

Seed producing plants, etc. — cont'd	Vol.	Page
Wych elm	10	259
	29	430
Xanthorrhæa	2	567
Xanthorrhiza	29	629
apiifolia	29	628
Xanthosoma sagittifolium	4	443
Xanthostemon pachysperma	29	629
Xanthoxylum	22	569
clava-hercules	21	565
Ximenia penerogan	29	600
Xylia dolabreformis benth	27	90
Xylopia	29	600
Xyris	29	624
Yarrow	29	616
Yellow birch	3	725
cedar	6	161
eyed grass	29	624
pine	22	97
	29	477
rattle	29	628
root	27	202
	29	628
wood	29	628
Yew	22	179
	29	635
Ylang-ylang	29	638
Yucca	29	672
filamentosa	29	672
Yulan	18	131
Zamia	22	178
	29	684
Zanthoxylum	24	65
	29	687
caribæum	29	629
Zebra wood	29	691
Zebrina pendula	28	253
Zedoary	29	694
Zelkona tree	29	697
Zelkova crenata	29	697
Zephyranthes	29	703
candida	29	703
Zingiber	22	186
Zingiberales	22	185
Zinnia	29	713
darwini	29	713
elegans	29	713
haageana	29	713
Zizania	13	160
	29	716
aquatica	13	160
Zizyphus	29	716
baclei	29	716
chloroxylon	29	717
jujuba	23	454
	29	716
lotus	16	241
	29	716
nummularia	29	717
sativa	29	716
spinachristi	16	241
	29	717
xylopyra	29	716
Zostera	29	734
Zygadenus fremontii	25	158
Zygophyllaceæ	13	508
	27	92

Plants useful to man (Economic Botany)

Plants useful to man — cont'd	Vol.	Page
Abaca	18	217
Abutilon avicennæ	16	267
Æsculin	1	197
Æthusa cynapium	9	229
Agave americana	11	169
fourcroyoides	25	46
heteracantha	25	158
sisalana	25	46

Plants useful to man — cont'd	Vol.	Page
Alfalfa	1	377
Almond	1	432
American smoke tree	6	571
Amole	25	158
Amygdalaceæ	6	583
Amygdalus persica	21	446
Anacardiaceæ	21	565
Anacyclus pyrethrum	21	487
Ananasa sativa	11	169
Anchusa tinctoria	1	406
Anethum graveolens	9	121
Angostura bark	1	694
Anise	1	714
Anonaceæ	21	565
Anona humboltiana	6	566
reticulata	8	335
Anthemis cotula	9	228
Antiaris toxicaria	3	320
Aplotaxis lappa	23	33
Apocynum androsæmifolium	14	356
Apple	2	84
Apricot	2	101
Araceæ	11	308
Armoracia	23	127
Army hemp	5	476
Aroma	2	320
Arrow arum	27	128
root	2	330
Artichoke	2	357
	5	603
Arum maculatum	2	330
Arva	2	670
Asimina	8	335
	21	256
triloba	21	256
Asparagus	2	402
Asteraceæ	9	228
Atriplex mummularia	2	567
Attalea	21	216
funifera	11	168
	21	216
Ava	2	670
Avena orientalis (oats)	20	533
Baga	27	205
Ballota nigra	14	381
Banana	3	131
	22	186
Barilla	3	251
Bark, peruvian	3	254
Barley	3	257
	22	185
Baru	3	298
Bassorin	3	319
Bdellium	3	370
Bean	3	377
	22	182
Beet	3	431
Bhang	3	608
Bingo-i	11	169
Bitter root	4	25
Bitterwood	23	66
Black damar	16	289
mustard	19	655
Blue gum tree	21	565
Boehmeria	4	148
nivea	3	320
tenacissima	3	320
Borassus flabellifer	11	168
Brassica alba	19	655
arvensis	19	655
napus	23	215
nigra	19	655
oleracea	16	282
ramosa	19	655
Brayera anthelmintica	16	520
Brazil cabbage	4	443
Bread root	4	452
Brome grass	22	185

Plants useful to man — cont'd	Vol.	Page
Bunium bulbocastanum.	9	494
flexuosum	9	494
Cabbage	5	115
	22	181
Cacahuate	5	128
Cacahuette	5	128
Cacao	7	189
	22	180
Cacomite	5	130
Calamus radiatus	23	227
Camphor laurel	5	284
Canada hemp	5	476
Canarium commune	6	559
Canary seed	5	489
wood	5	489
Cane sugar	25	795
Cannabis sativa	14	90
Cantaloupe	5	529
Caoutchouc	5	540
	6	160
Capernicia	21	217
Caprifoliaceæ	14	357
Capsicum	5	572
	21	565
annuum	21	565
frutescens	21	565
Carambola	5	583
Caraway	5	585
	9	494
Cardamon	5	598
Cardoon	5	603
Carex filiformis	11	169
Carica papaya	21	255
Carrion flower	25	110
Carrot	5	674
	22	183
Carthamus tinctoria	9	453
Carum	9	494
Carya oliveæformis	21	461
Caryota	21	216
urens	11	168
Cassia acutifolia	24	564
angustifolia	24	564
Cassia Bark	5	710
Cassia marylandica	24	564
obovata	24	564
Castor bean	6	16
oil plant	13	84
Catbalogan seed	24	21
Catha edulis	16	390
Catnip	6	105
Cat-tail millet	21	457
Cattimundoo	16	318
Cauliflower	6	130
	22	181
Cedrela toona	6	571
Celeriac	6	167
Celery	22	183
Cephælis ipecacuanha	23	748
Chamærops humilis	11	168
Chanopodium quinoa	6	412
Charlock	19	655
Chay root	6	369
Cherimoya	6	414
Cherry	2	567
	6	418
Chervil	6	420
Chick pea	6	451
Chickrassia tabularis	6	571
Chicory	6	458
China root	6	548
Chinchona tree	23	95
Chinese olive	6	559
Chiocoeca angustifolia	25	144
Conessi bark	7	486
Chiquichiqui palm	6	565
Chirimoya	6	566
Chittagong wood	6	571
Chittam wood	6	571
Chive	6	573

Plants useful to man — cont'd	Vol.	Page
Chlorogalum pomeridianum	25	158
Chloroxylon swietenia	6	580
Chocolate tree	7	189
Choke cherry	6	583
Chow caraibe	4	443
Choy root	6	369
Chrysopogon gryllus	11	168
Chufa	8	367
	20	509
Cibotium	11	168
Cimicipuga racemosa	25	144
Cinchona flava cortex	6	678
siccirubra	23	95
Cinnamomum cassia	5	710
Citrange	6	710
Citron	6	711
Citrullus colocynthis	13	85
Citrus	22	180
medica	6	711
Cive	6	573
Clove	7	133
	22	182
bark	7	133
Coca	7	178
Cocco	7	181
Cocculus indicus	7	181
Cochineal fig	7	184
Cocoa	7	189
Cocoanut	7	190
Cocoa plum	7	190
root	7	181
Coco de aceite	7	188
de mer	7	188
Coconut	7	190
Coffea	22	183
arabica	23	748
Coffee	7	209
	22	183
Colocasia antiquorum	26	272
Colocynth	13	85
Comfrey	7	361
Conessi bark	7	486
Conium	7	521
Contrayerva	7	600
Cooking banana	22	160
Capalchi bark	7	645
Coquilla nuts	2	520
Corchorus capsularis	16	267
olitorius	16	267
Coriander	7	691
Corn	7	698
Costus	23	33
Coto	8	58
Cotton	8	60
	8	60
	22	180
Cow herb	25	157
Currant	8	310
Crassulaceæ	14	448
Cruciferæ	11	411
Cryptostegia grandiflora	21	138
Cucumber	8	290
	22	183
Cucurbita	13	84
	25	463
Curcuma	8	305
tinctoria	9	453
Custard apple	8	335
Cydonia vulgaris	8	363
Cyperus unitans	11	169
Date	8	490
of Trebizond	8	490
plum	21	630
Death in the pot	13	85
Delphinium staphisagria	25	539
Dhunchee	9	53
Dill	9	121
Diospyros lotus	8	490

Plants useful to man — cont'd	Vol.	Page
Dog fennel	9	228
parsley	9	229
Doum nut	9	282
Drimys	9	337
Dyer's broom greenweed	9	454
Dyeweed	9	454
Earthnut	9	494
Echinocatus	5	131
Eddoes	7	181
Egyptian millet	21	457
Elæis guineensis	21	217
Encephalartos coffer	16	276
English plantain	22	159
walnut	28	244
Epicampes macroura	11	168
Esparsette	24	120
Eupatorium	9	228
ageratoides	25	144
Euphorbia trigonia	16	318
Euterpe edulis	2	410
	21	217
oleracea	21	216
Eysenhardtia polystacha	18	121
Fabaceæ	9	454
Ferula	2	375
sumbul	26	11
Fish berry	7	181
Flag, sweet	11	308
Flake manna	18	229
Flax	11	337
	22	180
Fruits, tropical	12	136
Fundi	12	163
Fundungi	12	163
Furcræa gigantea	11	168
Fustic	12	203
Gamboge	12	262
Garbanzo	6	451
Garlic	12	294
Genistatinctoria	9	454
Georgia bark	12	490
Ginger	12	658
	22	186
Gleditschias	25	158
Golden club	27	128
Golden seal	13	28
Goosefoot	6	411
Gossypium	22	180
Gourd	13	84
Granadilla	13	121
Grapefruit	13	146
Greens	13	438
Gum tragacanth	26	765
Gum tragic	26	765
Gymnocladus chinensis	25	157
	25	158
Gypsy wort	14	381
Harmel	13	711
Hemp	13	749
	14	91
nettle	14	92
Henna	14	96
Herbs, culinary	14	120
Hibiscus elatus	11	169
Hoarhound	14	381
Honey bloom	14	356
Honeysuckle	14	357
Hops	14	374
Horehound	14	381
Horseradish	23	127
Houseleek	14	448
Humulus lupulus	14	374
Hydrastis canadensis	13	21
Indian hemp	5	476
mustard	19	65
paint	15	3
India rubber tree	15	2
Indian tobacco	17	55
Irish moss	22	16
Istle	15	42

Plants useful to man — cont'd	Vol.	Page
Jack fruit	4	452
Jamaica honeysuckle	21	370
Juglans regia	28	244
Juncus effusus	11	169
Jute	11	170
	16	267
Kafir bread	16	276
Kale	16	282
Kattimundoo	16	318
Kava	2	670
Kohl rabi	16	508
Lacmus	17	519
Lagenaria	13	84
La-kwa	21	454
Lemon	17	281
Leopoldina piassaba	11	168
Lettuce	17	325
	22	184
Licorice	17	403
Lime	17	441
Linum	11	330
	22	180
usitatissimum	11	337
Litmus	17	519
Lolium temulentum	26	267
Lonicera	14	357
Lucerne	17	716
Luffa cylindrica	11	169
Lythraceæ	14	96
Macassar oil	18	9
Madder	18	96
Magic wood	18	121
Magnoliaceæ	9	337
Mahagua	18	137
Maho	18	137
Mahogany	6	164
	18	137
Maize	22	185
Malacca cane	18	157
Maldive double cocoanut	7	188
Mallotus philippinensis	16	286
Mangle	27	92
Manihot glaziovii	15	25
Manioc	5	709
Manna	18	229
Mardostachys	26	11
Marrubium vulgare	14	381
Maté	7	189
	18	424
Medicago sativa	17	716
Meliaceæ	6	571
Melons	18	607
Menthaceæ	23	696
Mentha spicata	25	366
Metroxylon	21	216
Millet	19	125
Mornordica elaterium	13	85
Morus tinctoria	9	452
Mugwort	19	548
Musaceæ	22	160
Musaparadisiaca	22	160
Musa textilis	8	320
Muskmelon	18	608
	22	183
Musk plant	19	651
Mustard	19	655
	22	181
Myrrh	19	662
Myrtaceæ	21	565
Nectarine	20	38
Nicotiana sylvestris	26	658
Nut grass	20	509
Nutmeg	20	510
Nuts	20	521
	25	268
Oats	20	533
	22	185
Oenanthe	9	494
Officinal plants	20	603
Okra	20	641

Plants useful to man — cont'd	Vol.	Page
Oldenlandia umbellata	23	748
Olive	20	663
Onion	2	63
	20	690
Onobrychis sativa	24	120
Orange	20	722
	22	180
root	13	28
Orontium aquaticum	27	128
Orris root	15	825
Otto of roses	2	520
Pæonia albiflora	21	559
Pagostemon patchouli	21	880
Palay	21	138
Palma christi	6	16
Palm kale	21	210
Pancovia delaryi	25	157
Papaveraceæ	24	261
Papaw	8	835
	21	256
Papyrus	21	270
antiquorum	21	270
Parietaria	21	487
officinalis	21	487
Parsnip	21	348
	22	183
Pea	21	435
Pearl millet	21	457
Pea tree	21	565
Peepul	21	469
Peganum harmala	13	711
Pellitory	21	487
Peltandra undulata	27	128
Pepper	21	565
tree	21	565
Persimmon	21	630
Peruvian mastic tree	21	565
Phœnix	21	789
sylvestris	21	217
Phorminum tenax	11	338
Phormium tenax	11	168
	21	793
Phytelephas	27	719
Phytelephas macrocarpa	21	217
Picræna excelsa	23	66
Pie plant	23	478
Piperaceæ	21	565
Piper nigrum	21	565
Pisum sativum	21	435
Plantain, Adam's fig	22	160
Plantago lanceolata	22	159
Plants, economic relation to man	4	311
Plum	22	182
Poa pratensis	11	169
Polianthes tuberosa	27	127
Polygala senega	25	144
Pomelo	13	146
Pomme blanche	4	452
de terre	4	452
Poncirus trifoliata	6	710
Potato	22	444
Potentilla	26	702
Pot herbs	13	438
Prune	22	713
Prunus avium	6	418
besseyi	6	418
cerasus	6	418
mahaleb	6	418
pennsylvanica	6	418
serotina	6	418
virginiana	6	583
Psoralea esculenta	4	452
melilotoides	25	144
Pterocarpus indicus	18	121
Puchuck	23	33
Pummelo	13	146
Pumpkin	22	183
	22	800
Purple medick	17	716

Plants useful to man — cont'd	Vol.	Page
Purslane	23	31
Putchock	23	33
Quass amara	23	66
Quassia	23	66
Quinoa	23	96
Radish	22	181
	28	126
Raiz de sacaton	11	168
Rape	23	315
Raphia ruffia	11	168
vinifera	11	168
Rata	23	224
Rattany	23	228
Reseda luteola	9	453
Resin elemi	16	289
Rhatany	23	228
Ribwort	22	159
Rice	22	185
	23	486
Ricinus communis	13	84
Rosmarinus officinalis	23	696
Rosemary	23	696
Rubber trees	23	745
Rubia tinctorum	9	453
Rubus vitifolius	17	596
Rutabaga	27	205
Rye	22	185
	24	72
Sabal palmetto	11	168
Saccharine sorghums	25	264
Saccharum officinarum	25	794
Sainfoin	24	120
Salsola soda	3	251
Salt bush	2	567
Sanguinaria	24	261
canadensis	14	17
Sansevieria	11	169
Saponaria officinalis	24	291
	25	157
Schinus molle	21	565
Scleranthus perennis	16	379
Sea double cocoanut	7	188
Secale cereale	24	72
Serrenoa serrulata	11	168
Shaddock	13	146
Shichito-i	11	169
Sicilian manna	18	229
Singhara nut	25	35
Sisal hemp	25	46
Snakeroot	25	144
Soap plants	25	157
Soap wort	25	157
Solanaceæ	14	93
	22	444
	26	658
Solanum mammosum	25	234
tuberosum	22	444
Soma	25	249
Sorghum	25	264
Spanish camomile	21	487
Spearmint	25	366
Spikenard	26	11
Spinach	25	410
Spinage	25	410
Sporobolus indicus	11	169
Squirting cucumber	13	85
Stachys sieboldi	18	651
Stavesacre	25	539
Strychnos colubrina	25	144
Succory	6	458
Sumbul	26	11
Swedish turnip	27	205
Sweet wood	18	121
Syrian rue	13	711
Tacca pinnatifida	2	330
Tamarisk manna	18	229
Tampico	15	425
Tare	26	267
Taro	7	181
	26	272

Plants useful to man — cont'd	Vol.	Page
Theobroma	22	180
Tillandsia usenoides	11	168
Timothy	22	185
Tobacco plant	26	658
Tomato	26	680
Tormentil	26	702
Tragacanth	26	765
Trilisa odoratissima	27	684
Trumpet tree	6	160
Tuberose	27	127
Tuckahoe	27	128
Turnip	22	181
	27	205
Typha	23	780
Umbelliferæ	9	121
	9	494
Uncaria gambir	23	748
Uvaria triloba	8	335
Vaccaria vaccaria	25	157
Vanilla	27	683
plant	27	684
Vegetable ivory	27	719
Water horehound	14	381
Water lemon	21	370
Watermelons	18	607
	22	183
Wheat	22	185
	29	241
White mustard	19	655
Wine plant	23	478
Wintergreen	12	341
	29	403
Woad	29	434
Woadwaxen	9	454
Yam	29	610
Yava	2	670
Yellow Indian paint	13	28
puccoon	13	28
Yerba maté	7	189
	18	424
Yucca	22	322
Zea	22	185
Zingiberaceæ	21	565

Environment of Plants (Plant Ecology and Plant Geography

	Vol.	Page
Acclimatization	1	75
Achorion lebertii	21	291
schoenleinii	21	291
Æstival	1	203
Air humidity	22	154
plant	1	289
Alaska, plants of	1	312
Alismaceæ	1	404
	2	107
Alpine plants	1	438
Amphibious plants	1	587
Anacharis	2	107
Anastatica hierochuntica	23	694
Animal life as an ecological factor	22	156
Annual	1	719
Aquatic plants	2	106
Arctic plants	2	188
Areas	22	158
Australian flora	2	567
Autochthonous	2	641
Basidiomyceteæ	12	171
Basidium fungi	12	171
Beach plants	3	372
Belanophoreæ	19	670
Biennials	3	691
	23	686
Billbergia	3	704
Black-dot fungi	12	171
Blue-green slimes	24	497
Brown seaweeds	24	497
Butomis	2	107
Cæalpinia bonducella	24	473

Environment of Plants — cont'd	Vol.	Page
Calluna vulgaris	14	50
Carnegie Desert Laboratory	5	634
Carrageen	5	662
Carragheen	5	662
Caulerpa	24	497
Caulophyllum thalictroides	25	465
Characeæ	24	497
Chionyphe carteri	21	291
Chloris	6	577
Chlorophyceæ	24	497
Chondrus crispus	5	662
	24	497
Classification of habitats	22	156
Cleistogamous flowers	7	82
Climate and plants	7	110
Climatic zoning of plants	21	144
Codium	24	497
Conopholis americana	25	465
Coralline	7	678
Cyanophyceæ	24	497
Cyperaceæ	24	523
Cyperus	24	523
Darkness plants	22	156
Deer forests	8	583
Dendrobium	8	677
Dermatophyte	8	713
Desert plant	9	7
	22	156
	22	220
Devil's apron	9	39
	24	497
Diatoms	22	152
Dry garden	14	115
Dulse	9	392
Dune plants	9	404
Duration	9	418
Ecology	9	555
	22	153
Effect of habitat	22	156
Entada scandeus	24	473
Entomophthoraceæ	12	167
	12	173
Entophyta	21	291
Environment and plant	22	153
Epiphyta	21	291
Epiphytes	10	428
	12	164
Epiphytic orchid	22	185
Ericaceæ	14	50
Estival	1	203
Euplectella	12	711
Exotic	10	641
Factors of a habitat	22	154
Fireweed	22	158
Flora of:		
Afghanistan	1	207
Africa	1	215
Alabama	1	300
Alaska	1	312
Alberta	1	335
Argentina	2	199
Arizona	2	252
Arkansas	2	257
Asia	2	392
Australia	2	567
Belgium	3	457
Bengal	3	511
Bolivia	4	186
Brazil	4	433
British Columbia	4	555
California	5	200
Canada	5	433
Chile	6	501
China	6	518
	6	519
Colombia	7	276
Costa Rica	8	40
Cuba	8	279

Environment of Plants — cont'd	Vol.	Page
Delaware	8	609
Denmark	8	680
Florida	11	369
France	11	574
Germany	12	509
Greece	13	376
Greenland	13	435
Guiana	13	529
Hungary	14	501
Iceland	14	627
Idaho	14	656
India	15	3
Indiana	15	33
Ireland	15	310
Italy	15	434
Japan	15	626
Java	15	755
Kentucky	16	365
Latin America	17	3
Louisiana	17	680
Madagascar	18	93
	18	94
Maine	18	143
	18	144
Maryland	18	352
Mexico	18	742
Michigan	19	21
Minnesota	19	201
Mississippi	19	243
Montana	19	386
Nebraska	20	26
Nevada	20	106
New Mexico	20	149
New South Wales	20	162
New York	20	190
New Zealand	20	245
North America	1	489
	22	159
North Dakota	20	421
Norway	20	438
Ohio	20	611
Oregon	20	774
Persia	21	614
Peru	21	644
Porto Rico	22	401
Portugal	22	410
Queensland	23	81
Russia	24	45
South Carolina	25	289
South America	1	489
Spain	25	325
Switzerland	26	145
Sweden	26	116
Syria	26	187
Tennessee	26	419
Texas	26	460
Turkey	27	181
Ukraine	27	257
United States	27	308
Venezuela	27	729
Vermont	28	19
Wisconsin	29	419
Wyoming	29	584
Yukon	29	674
Floristic botany	22	153
Flower month	11	394
Flowers and insects, their relations	11	397
of the garden	11	394
Forest trees, tropical	11	473
Form	11	489
Formations	22	158
Fucus	24	497
Fulcaceæ	24	302
Galls and gall-makers	12	250
Geophyte	12	472
Giant kelps	22	207
Glass-sponges	12	711
Green seaweeds	24	497
felts	24	497

Environment of Plants — cont'd	Vol.	Page
Halophytes	13	650
Heather	14	50
Heaths	14	50
Heliophytes	22	156
Helobiæ	2	107
Herbarium	14	115
Holophyte	12	164
Human activity as an ecological factor	22	156
Hydrocharis	2	107
Hydrophytes	14	583
	22	156
Hypochæris	14	607
radicata	14	607
Hysterophyte	12	164
Imperfect fungi	12	170
Influence of light on plants	22	154
Insect fungi	12	167
Irish moss	5	662
	24	497
Jardin D'Acclimatation	15	748
Kelp	9	39
	16	345
	24	497
Labrador tea	16	623
Laminaria	16	677
	24	497
Laminariaceæ	16	677
	18	91
Lenna	2	107
Leplothrix buccalis	21	291
Lessonia	24	497
Live-forever	21	10
Lycoperdaceæ	12	171
Macadamia ternifolia	24	473
Macrocystis	18	91
	24	497
Marine gardens	5	213
Marsh tea	16	623
Melanconiaceæ	12	171
Mesophyte	18	687
	22	156
Marine forms	22	166
Microsporon audovini	21	291
furfur	21	291
mentagrophytes	21	291
Middle plants	22	156
Migration of plants	22	158
Mixophyte	19	275
Moist-land plants	22	157
Molds	12	171
Moniliaceæ	12	171
Morels	12	172
Mystropetaleæ	19	670
Mystropetalon	19	670
Naiadaceæ	19	682
Naias	2	107
Nelumbium	2	107
Nerocystis	22	217
Nullipore	20	486
Oïdium albicans	21	291
Orobanchaceæ	25	465
Orpine	21	10
Ouvirandra	2	107
Palisade tissue	22	157
Pampas	21	221
Parasite	12	164
Parasitic plant	21	291
Perennials	23	686
Phæophyceæ	24	497
Phalliaceæ	12	171
Phylum myxophyceæ	12	165
Physiography as an ecological factor	22	155
Phytoparasites	21	287
Plant associations	22	193
Plant formations	22	157
Plant geography	22	158
Plants in relation to geography	4	310

Environment of Plants — cont'd	Vol.	Page
Plants, migration of	22	204
Plumbaginaceæ	25	528
Poisonous fungi	12	173
materials in soils	22	189
Potameæ	2	107
Prairie chloris	6	577
Prairie grasses	22	158
Protococcus	24	497
Puccinia favi	21	291
Puff balls	12	171
Rafflesia	23	132
arnoldi	23	132
Ranunculus aquatilis	2	107
Red seaweeds	24	497
Resurrection plant	23	694
Rhodophyceæ	20	486
	24	497
Rockweeds	24	497
Rocky Mountains, flora of	23	616
Rose of Jericho	23	694
Rush	23	780
Rusts	12	170
Sac fungi (ascomycetes)	12	168
Sagittaria	2	107
Salvador, flora of	24	210
Saprophyte	12	164
	22	170
	24	292
Sarcina ventriculi	21	291
Sargasso sea	22	168
Sargassum	24	302
baccíferum	24	303
Sciophytes	22	156
Sea beans	24	473
lettuce	24	475
Season of flowering	13	433
Sea trees	22	167
Seaweeds	24	497
Sedge	24	523
Shade plants	22	156
	22	157
Shady moist habitats	22	156
Short grasses	22	158
Smuts	12	170
Soil action on plant life	22	155
Sphæropsidaceæ	12	171
Spot fungi	12	171
Squawroot	25	465
Statice	25	528
Stink-horns	12	171
Stoneworts	24	497
Stratiotes	2	107
Subterranean plants	22	170
Sun leaves	22	157
plants	22	156
	22	157
Swamps	22	97
Symbiosis	22	194
Temperature as an ecological factor	22	154
Terrestrial plants	22	154
Texas flora	26	460
Thallus	17	396
Thrush fungus	21	291
Toadstools	12	172
Torula cerevisæ	21	291
Tricophyton sporuloides	21	291
Tropical forests	11	473
Truffles	12	168
Tuberaceæ	12	168
Tumblewoods	22	158
Ulva	24	497
Uredinales	12	170
Ustilaginales	12	170
Utilization of moisture by plants	22	155
Utricularia	2	107
Varec	16	345
Vaucheria	24	497

Environment of Plants — cont'd	Vol.	Page
Vegetable life as an ecological factor	22	156
Venus' flower basket	12	711
Victoria regia	2	107
Water as an ecological factor	22	154
Water plants	14	583
	22	156
Wet habitats	22	156
Wind effects on plant life	22	155
Xerophytes	22	156
	29	598
Zostera	2	107

Diseases of Plants; Plant Pathology

	Vol.	Page
Abnormal predisposition in plants	22	188
Agaricineæ	22	195
Agaricus melleas	22	195
	22	196
Albinism	1	338
	22	188
Albugo	22	167
Alkali soils	22	189
	25	225
Anbury	7	138
Anthracnose	2	19
Aphides	22	196
Asparagus rust	2	408
Atmospheric conditions	22	190
Bacillus amylavorus	2	88
anthracis	22	193
sorghi	25	265
Bacterial disease of the English walnut	22	196
Bacterial infection	22	197
Bacterium tumifaciens	2	88
Bedeguar	3	413
Bermuda lily	22	186
Bitter heart	22	100
Black knot	22	201
Black rot	28	154
spot	21	448
Blight	4	82
American	4	82
of cereals	22	186
Blue mould	14	376
Borers	22	197
Botrytis	22	195
	22	196
cinerea	22	193
Bracket fungi	22	195
Brand bladders	5	26
Broom rape	4	597
Burning	22	191
	22	192
Calcium	22	190
California vine disease	22	188
	22	189
Calocoris fulmomaculatus	14	376
Capsidæ	22	196
Cedar apples	22	200
	22	201
Cercospora apii	6	167
Cereal rusts	22	196
Chlorine	22	190
Citrus canker	20	727
Cladosporium carpophilum	21	448
Claviceps purpura	24	72
Clover rot	7	135
rust	7	135
Clubroot	7	138
	22	200
Cockscomb gall on elm	22	197
Cold rigor	22	192
Colopha	22	197

Diseases of Plants, etc.— cont'd

	Vol.	Page
Constitutional conditions, predisposition and immunity	21	187
Corallorhiza odontorhizo	22	203
Corn smut	22	200
Crawley root	22	203
Crown gall	22	201
Cuscuta	22	194
Damp-off fungi	22	196
Die-back (orange pest)	20	727
Diseases of plants	13	144
	22	186
	22	233
	25	265
Dodders	22	194
Dormant period	22	192
Downey mildews	22	167
	22	196
Dust-brand	9	430
Electricity and plants	22	193
Elm leafspot	22	171
Empretia stimulea	14	376
Endotrophic mycorhiza	22	194
English walnut, bacterial diseases of	22	196
Entomosporium maculatum	21	453
Exoascus deformans	21	448
pruni	22	253
Exobasidium	22	196
Fasciation	22	201
Filamentous gall on leaf of basswood	22	200
Finger and toe	7	138
	11	223
	22	196
Fire blight	22	196
Frost canker	22	192
cracks	22	192
Fruit rot	21	448
Fungi	12	164
Fusarium	22	196
Gall on leaf of white oak	22	200
Glomorella rufomasulans	2	88
Gortyna immanis	14	376
Gummosis	22	188
Health and disease of plants compared	22	186
Heart rot	22	100
Hemisaprophytic wood-destroying fungi	22	195
Hypena humuli	14	376
Hypertrophy	22	196
Injuries from cold or heat	22	188
Injurious gases	22	191
Injury to plants	22	186
	22	195
Iron	22	190
Large swellings	22	200
Leaf blight	6	167
	22	254
curl	21	448
	22	196
hoppers	22	196
spot	7	135
	21	453
spot fungi	22	196
spot of tomato	22	173
Lepra	17	309
Light	22	193
Lilium harrisii	22	188
Little peach	21	448
Magnesium	22	190
Mamestra picta	14	376
Mechanical injury	22	193
separation of cells	22	192
Mealy bugs	22	196
Mildew	22	186
	28	154
Moisture variation	22	190

Diseases of Plants, etc.— cont'd

	Vol.	Page
Monilia fructigena	21	448
Monotropa hypopitys	22	194
Mosquito blight	19	508
Myxomycetes	22	200
Nectria ditissima	2	88
Nematode worms	22	197
Neofabræn malicorticis	2	88
Nitrogen	22	190
Non-fertile individuals	22	188
Normal predisposition to injury by cold	22	187
Nutation in plants	20	509
Œdema	22	191
Orobanche ramosa	4	597
Ozonium	22	196
Pathogenic bacteria	22	196
Pathogenic fungi	22	194
Peach rosette	22	188
yellow	22	188
	22	189
Pear blight	21	453
	22	196
Pear-leaf blight	21	453
Peridermium	22	196
Peronosporeæ	22	196
Phordon humuli	14	376
Phosphoric acid	22	190
Phyllosiphon	22	166
Phylloxera	22	196
	28	155
Phytophthora	22	167
Plant bugs	22	196
lice	22	196
	22	254
pathology	22	187
Plants, diseases of	22	186
malformations in	22	199
Plasmodiophora	22	196
	22	200
brassicæ	11	223
Plum curculio	22	254
pocket	22	196
	22	253
Podosphæra oxycanthæ	2	88
Poisonous materials	22	189
Polygonia interrogationis	14	376
Polyporeæ	22	195
Potato blight	22	445
Potato, diseases of	22	445
rot	22	196
Powdery mildew	8	291
	14	376
Predisposition to disease	22	187
Premature defoliation	22	196
Pythium	22	195
	22	196
Resting period	22	192
Rhizoctonia	22	196
Rhysotheca	22	167
Root rot	22	196
suffocation	22	189
Rust	6	167
	22	186
	22	195
	22	201
	29	242
Rye diseases	24	72
San José scale	2	87
	22	197
	24	346
Scalding	22	191
Scale insect	22	196
	24	346
Schizoneura	22	197
Sclerotinia	22	195
trifoliorum	7	135
Scorching	22	192
Septoria petroselini	6	167
Shot hole	22	254

Diseases of Plants, etc.— cont'd

	Vol.	Page
Smuts	9	430
	29	242
Seedless individuals	22	188
Soil	22	189
	25	225
Soil nutrients	22	190
Sphæropsis malorum	2	88
Spike	22	100
Spilisonma virginica	14	376
Stigmonose	22	197
Stinking smut	22	172
Struggle for room	22	193
Sudden variation of temperature	22	192
Sulphur	22	190
Sun scald	6	167
Temperature	22	191
Tettigonia confluenta	14	376
Tissue degeneration	22	190
Toad stools	12	164
	22	195
Toxic products	22	195
Twig blight	21	448
Unfavorable soil conditions	22	186
Ustilago	22	170
maydis	22	200
reilana	25	265
sorghi	25	265
zeæ	7	706
Variation	22	186
Variegation	22	188
Vegetable parasites	22	194
White pine blister rust	22	171
rust	22	167
	22	201
Wilt disease	8	291
Winter desiccation	22	191
sun scald	22	191
Wind as an agent in the injury of plants	22	191
Witches' Brooms	22	196
	22	200
Wooden roses	22	201
Wooly apple louse	22	197
Wound infection	22	195
Wounds and mechanical injuries	22	188
Yellows	21	447

Biographies

UNITED STATES

	Vol.	Page
Arthur, Joseph Charles	2	354
Atkinson, George Francis	2	500
Bailey, Liberty Hyde	3	50
Bailey, William Whitman	3	51
Banister, John	3	146
Barnes, Charles Reid	3	266
Barton, William Paul Crillon	3	298
Bartram, John	3	298
Bartram, William	3	298
Beal, William James	3	376
Bessey, Charles Edwin	3	588
Bigelow, Edward Fuller	3	695
Blakeslee, Albert Francis	4	58
Bolley, Henry Luke	4	192
Brewer, William Henry	4	475
Britton, Elizabeth Gertrude	4	566
Britton, Nathaniel Lord	4	566
Buckley, Samuel Botsford	4	669
Burbank, Luther	5	30
Burrill, Thomas Jonathan	5	65
Burroughs, John	5	66

Biographies — cont'd	Vol.	Page
Campbell, Douglas Houghton	5	278
Canby, William Marriott	5	490
Cannon, William Austin	5	511
Cardiff, Ira D.	5	509
Chamberlain, Charles Joseph	6	259
Chapman, Alvan Wentworth	6	297
Chestnut, Victor King	6	424
Clark, Galen	7	41
Clayton, John	7	74
Clinton, George Perkins	7	114
Clute, Willard Nelson	7	189
Colden, Cadwallader	7	240
Collins, Frank Shipley	7	268
Cook, Melville Thurston	7	622
Cook, Orator Fuller	7	622
Copeland, Edwin Bingham	7	647
Coulter, John Merle	8	95
Coville, Frederick Vernon	8	132
Curtis, Carlton Clarence	8	316
Davis, Bradley Moore	8	508
De Loach, Robert John Henderson	8	624
Dewey, Lyster Hoxie	9	47
Eaton, Amos	9	516
Engelmann, George	10	336
Evans, Alexander William	10	590
Everhart, Benjamin Matlack	10	602
Fairchild, David Grandison	10	718
Farlow, William Gilson	11	21
Ferguson, Margaret Clay	11	124
Gager, (Charles) Stuart	12	226
Galloway, Beverly Thomas	12	249
Garden, Alexander	12	282
Gillman, Henry	12	653
Goodale, George Lincoln	13	57
Gray, Asa	13	164
Greene, Edward Lee	13	423
Griffiths, David	13	471
Harris, Thaddeus William	13	724
James, Thomas Potts	15	606
Jeffrey, Edward Charles	16	7
Johnson, Duncan Starr	16	170
Jones, Lewis Ralph	16	201
Kellerman, William Ashbrook	16	339
Lamson-Scribner, Frank	16	684
Lemmon, John Gill	17	280
Livingston, Burton Edward	17	540
Lloyd, Francis Ernest	17	549
Macbride, Thomas Huston	18	16
Macdougal, Daniel Trimbly	18	39
Marshall, Humphrey	18	326
Meehan, Thomas	18	591
Millspaugh, Charles Frederick	19	129
Mohr, Charles Theodor	19	309
Moore, George Thomas	19	430
Morong, Thomas	19	471
Mottier, David Myers	19	520
Muhlenberg, Gotthilf Henry Ernst	19	540
Nelson, Aven	20	63
Osterhout, Winthrop John Vanleuven	21	34
Overton, James Bertram	21	60
Parry, Charles Christopher	21	346
Peck, Charles Horton	21	462
Peirce, George James	21	474
Pickering, Charles	22	66
Pollard, Charles Louis	22	319
Porter, Thomas Conrad	22	392
Rafinesque, Constantine Samuel	23	132
Ramaley, Francis	23	199
Ravenel, Henry William	23	233
Richards, Herbert Maule	23	492
Robinson, Benjamin Lincoln	23	578
Rose, Joseph Nelson	23	693
Rothrock, Joseph Trimble	23	717
Rowlee, Willard Winfield	23	733
Rusby, Henry Hurd	23	779
Setchell, William Albert	24	607
Shear, Cornelius Lott	24	670
Shull, George Harrison	24	760
Small, John Kunkel	25	101
Smith, Erwin Frink	25	116
Stejneger, Leonhard	25	613
Stevens, Frank Lincoln	25	635
Sudworth, George Bishop	25	789
Thaxter, Roland	26	489
Thurber, George	26	601
Torrey, John	26	710
Trelease, William	27	37
True, Rodney Howard	27	103
Tuckerman, Edward	27	130
Underwood, Lucien Marcus	27	275
Vasey, George	27	694
Watson, Sereno	29	110
Webber, Herbert John	29	144
Weed, Clarence Moore	29	155
Yates, Lorenzo Gordin	29	616

UNITED KINGDOM

Biographies — cont'd	Vol.	Page
Aiton, William	1	291
Baker, John Gilbert	3	60
Balfour, Sir Andrew	3	79
Balfour, Isaac Bayley	3	80
Banks, Sir Joseph	3	150
Bennett, Alfred William	3	519
Bentham, George	3	525
Bentley, Robert	3	527
Bergen, Joseph Young	3	544
Berkeley, Miles Joseph	3	555
Birdwood, Sir George	4	2
Boulger, George Simonds	4	328
Bower, Frederick Orpen	4	362
Brandis, Sir Dietrich	4	412
Brown, Robert	4	610
	22	217
Cooke, Mordecai Cubitt	7	624
Cornish, Charles John	7	714
Darwin, Charles	8	230
Darwin, Erasmus	8	486
Darwin, Sir Francis	8	486
Douglas, David	9	278
Dyer, Sir William Turner Thistleton	9	451
Falconer, Hugh	10	726
Farmer, John Bretland	11	38
Fortune, Robert	11	523
Gerard, John	12	494
Green, Joseph Reynolds	13	483
Grew, Nehemiah	13	464
	22	217
Haworth, Adrian Hardy	14	9
Hooke, Robert	22	217
Hooker, Sir Joseph Dalton	14	363
Hooker, Sir William Jackson	14	364
Jackson, Benjamin Daydon	15	577
Jefferson, Richard	15	767
Lindley, John	17	457
Molesworth, Christopher	4	2
Morris, Sir Daniel	19	474
Morison, Robert	19	459
North, Maranne	20	409
Pratt, Anne	22	511
Ray, John	23	238
Smellie, William	25	109
Thomson, Sir Charles Wyville	26	582
Ward, Nathaniel Bagshaw	29	700
Wray, John	23	238

OTHER COUNTRIES

Biographies — cont'd	Vol.	Page
Adamson, Michel	1	129
Alexandre, Jacques	4	222
Alpini, Prospero	1	439
Alströmer, Clas (Claude)	1	444
Ambrosini, Bartolomeo	1	474
Ascherson, Paul Friedrich August	2	380
Bary, Heinrich Anton de	3	299
Baudin, Nicolas	3	347
Bauhin, Gaspard	3	349
Bauhin, Jean	3	349
Belleval, Pierre Richer de	3	483
Berkhey, Johannes Lefrance van	3	558
Bock, Jerome	4	142
Bonpland, Aimé	4	222
	7	481
Bornet, Jean Baptiste Edouard	4	280
Bosc, Louis Augustin Guillaume	4	285
Brefeld, Oskar	4	461
Brongniart, Adolphe Théophile	4	578
Bunge, Alexander	5	24
Cæsalpin, Andrea	6	230
Camerarius, Rudolph Jacob	5	262
	8	230
Candolle, Alphonse Louis P. P. de	5	498
Candolle, Augustin Pyramus de	5	498
Cavanilles, A. J.	6	142
Celakovsky, Lodislav	6	165
Celsius, Olaf	6	176
Céré, Jean Nicolas	6	223
Cesapino, Andrea	4	308
	6	230
	22	163
Chamisso, Adelbert de	6	268
Chodat, Robert	6	582
Cirillo, Domenico	6	696
Cohn, Ferdinand Julius	7	217
Colonna, Fabio	7	298
Commelin, Jan	7	364
Commerson, Philibert	7	402
De Bary, Heinrich Anton	8	542
De Candolle, Augustin Pyrame	8	555
Delpino	15	583
De Vries, Hugo	9	44
Dillen, Johann Jakob	9	121
Dillenius, Johann Jakob	9	121
Eichler, August Wilhelm	10	26
Endlicher, Stephen Ladislas	10	320
Engler, Heinrich Gustav Adolf	10	359
Ettinghausen, Konstantin, Baron von	10	557

Biographies — cont'd	Vol.	Page
Famintzin, Andrei Sergeyevitch	11	9
Forskol, Peter	11	494
Forster, Johann Reinhold	11	495
Fries, Elias Magnus	12	108
Fuchs, Leonhard	12	142
Ganong, William Francis	12	275
Guillemin, Jacques Antoine	13	588
Guignard, Jean Louis Léon	13	533
Grisebach, August Heinrich Rudolph	13	481
Haller, Albrecht von	13	647
Hasen, Niels Ebbesen	13	685
Hasselquist, Fredrik	13	750
Heer, Oswald	14	64
Jansen, Olaus	15	615
Jung, Joachim	16	248
Koch, Karl	16	504
Kunth, Karl Sigismund	16	556
Kützing, Friedrich Traugott	16	562
Lamarck, Jean Baptiste P. A. de M.	16	666
Lecomte, Paul Henri	17	212
Linnæus Carolus	4	308
	17	461
Macoun, John	18	88
Malpighi, Marcello	15	535
	22	217
Matsumura, Minzo	18	439
Michaux, André	19	14
Michaux, François André	19	14
Mohl, H. V.	12	543
Nägeli, Karl Wilhelm	19	680
Nees Von Esenbeck, Christian Gottfried	20	40
Palisot de Beauvois, Ambroise Marie F. J.	21	206
Plumier, Charles	22	258
Provancher, Leon	22	697
Ross, Alexander Milton	23	703
Sachs, Julius	22	212
	24	88
Saint Hilaire, Auguste Provençal de	24	131
Saint Hilaire, Augustin François César	24	131
Saussure, Horace Bénédict de	24	321
Saussure, Theodore de	22	212
Schleiden, Matthias Jakob	12	543
	22	217
	24	377
Schweinfurth, Georg August	24	411
Tieghem, Philippe Eduard Léon van	26	618
Turner, Fred	27	203
Zea, Francisco Antonio	29	690

See also **Biology; Zoology;** and related sciences.

BREWING, DISTILLING AND WINE MAKING

General	Vol.	Page
Alcohol	1	345
Alcoholic fermentation, recent researches in	29	387
Alcoholometry	1	350
Ale	1	356
Bang	3	145
Bangue	3	145
Beer	1	356
	3	429
carbonating	4	481
cereal base	4	476
chip cask treatment	4	481
filtration of	4	481
pitching and varnishing containers	4	482
racking of	4	481
of Germans	4	475
of Norsemen	4	475
of old	4	475
of Teutons	4	475
storage of	4	481
what it was and is	4	475
Benedictine	3	507
Beverages	3	598
Bock beer	4	142
Brandies	29	390
Brandy	4	413
Brewing and malting	4	475
prehistoric	4	475
Brewing, attemperation	15	98
attenuation	15	98
Baudelot cooler	4	481
boiling the wort in kettles	4	480
cast	15	99
cellars	4	481
couch	15	100
drum malting	4	477
drying-plates	15	101
equipment	4	477
	4	478
fermentation of wort	4	481
German	12	593
gravel	15	102
industry in America	4	482
infusion	15	103
malt cleaning	4	477
malt-growing or germinating floors	4	476
malt kilning or drying	4	477
malt-steeping	4	476
malting	4	476
malting-drum	4	477
malting floor, pneumatic	4	477
malting mechanical	4	477
mash	15	103
mashing in cereal cookers	4	479
mashing in mash tubs	4	479
materials	4	477
	4	478
mechanical malting	4	477
operations	4	477
	4	478
steeping malt	4	476
surface cooler and beer tank	4	481
wort in hop jack	4	480
Chica	6	437
Crême de Noyau	20	479
Distillation	9	173
high wine	9	176
last runnings	9	176
of alcohol	9	176
of alcohol for blending brandies	9	176
of spirits	9	173
percentage of alcohol in boiling mixture	9	174
prime spirit	9	176
rectified fine spirit	9	176
refining of spirits	9	175
Distilled liquors	9	178
	17	500
alcoholic	9	178
control of distillery	9	182
preparation of alcohol by fungi	9	182
sugary substances	9	178
Distilling	9	183
feints	15	101
industry, production	9	185
proof spirit	15	104
racking	15	104
rectifying	15	104
wash	15	105
Doppelkümmel	16	555
Eimbecker bier	10	40
Fining	11	223
Fermentation	29	387
microbes	29	387
Gin	12	658
Highwines	29	260
Hops	14	375
Internal revenue system	15	249

General — cont'd	Vol.	Page
Kirsch	16	460
Kirschwasser	16	460
Kümmel	16	555
Kvass	23	66
Liquor and the liquor traffic	17	499
Liquor, consumption of.	17	501
distilled	9	178
	17	500
legislation	17	497
legislation, 18th Amendment to United States Constitution	7	577
	22	639
Liquors, malt	17	500
Liquors, spirituous	9	178
Local option	17	557
Malaga wine	18	159
Malmsey	18	169
Malt liquors	17	500
Maraschino	18	262
Marasquino	18	262
Mead	18	474
Medoc	18	590
Mescal	18	685
Mexico, beer, wines and liquors	18	751
Muscatel	19	614
Must	19	655
Negus	20	57
Noyau	20	479
Palm-wine	26	667
Perry	21	608
Pipe	22	107
Pito	6	437
Poso	6	437
Prohibition	22	638
Punch	23	15
Rectify	23	275
Quass	23	66
Ratafia	23	224
Rum	23	764
Sake	24	175
Saki	24	175
Slivovica	24	579
Spirituous liquors	9	178
Tartar	29	390
Toddy	26	667
Viscous fermentation	28	133
Vodka	28	162
Warehouse, bonded	4	210
system	28	703
Whisky	9	179
	29	257
blended	29	260

General — cont'd	Vol.	Page
bourbon	4	348
burbon	9	179
fermentation of mash.	9	180
half rye	9	179
making, beer	29	258
fire copper	29	258
steam process	29	258
malt	9	180
mashing for	9	180
oat	9	180
rye	9	179
Scotch, method of making	29	258
straight	29	260
wheat	9	180
Wine and wine-making.	29	387
France	11	703
Wine, boquet of	4	345
drawing of	29	389
Falernian	10	729
industry in the United States	29	398
Wine making, Baumé scale	29	388
composition of the must	29	388
crushing the grapes.	29	389
cultivated and selected yeasts	29	387
doctor	15	100
duration of fermentation	29	389
fermentation and enzymes	29	387
fermenting tanks or vats	29	389
gathering of grapes.	29	388
influence of temperature	29	389
stemming	29	389
vinification	29	388
vintage	29	388
utilization of by-products	29	390
Wine-palm	21	216
	26	667
Wine press	29	386
Wine presses, different kinds of	29	390
Wine production of the world	29	393
Wines, acid	29	392
alcoholic strength of	29	392
American, two distinct types of	29	394
Australian	29	392

General — cont'd	Vol.	Page
Austrian	29	392
bitterness	29	392
Bordeaux	4	265
Burgundy	5	43
Canary Island	29	392
Cape of Good Hope	29	392
Catawba	6	47
Chablis	6	240
Champagne	6	270
	29	391
Chianti	6	435
Claret	7	87
classification of	29	392
diseases of, source	29	391
dry	29	389
flat or cloudy	29	392
French	29	392
German	29	392
greasy	29	392
Grecian	29	392
handling and taking care of	29	391
Ionian	29	392
Italian	29	392
Madeira	18	97
	29	392
Moselle	29	391
Muscatel	19	614
of the United States.	29	392
Persian	29	392
Port	22	387
	29	390
Portuguese	29	392
red	29	389
red dry	29	392
red sweet	29	392
Russian	29	392
Sauterne	24	321
Sherry	24	707
	29	390
Spanish	29	392
sparkling	29	389
	29	391
specific gravity of	29	392
still	29	389
sweet	29	390
Swiss	29	392
Tokay	26	669
Turkish	29	392
white	29	389
white dry	29	392
white, manufacture of	29	390
white sweet	29	392

See also under **Domestic Science, Beverages.**

BUILDING AND CONSTRUCTION

General	Vol.	Page
Apartment house	2	53
Aqueducts	2	107
modern construction.	2	111
Ashlar facing	18	390
Balcony	3	74
Baluster	3	124
Balustre	3	124
Balustrade	3	124
Beehive houses	3	428

General — cont'd	Vol.	Page
Blasting	4	69
Blinds	4	87
Bothie	4	313
Bow-window	4	359
Breakwaters	13	691
Bridge construction	4	506
American	4	506
modern methods of	4	511
trusses, simple	4	512

General — cont'd	Vol.	Page
Bridge designs	4	519
railway	4	519
Bridge shops and shop practice	4	523
Bridges, arch	4	516
bracing	4	515
concrete	4	504
	7	465
concrete arches	4	517

General — cont'd	Vol.	Page
Bridges, concrete, cantilever	7	466
concrete, girder	7	466
concrete, railroad trestles	7	466
concrete, reinforced arches	7	465
concrete, slab	7	466
draw	4	503
floors and floor systems	4	514
girder	4	514
highway	4	503
lift	4	503
	4	527
lift, bascule	4	528
lift, roller bearing	4	529
lift, rolling	4	529
lift, trunion	4	528
lift, vertical	4	530
military	4	504
movable	4	503
	4	513
pontoon	4	504
railway	4	503
rolling	4	503
steel trusses, details	4	517
suspension	4	515
swing	4	503
truss, cantilever	4	513
Building and Loan associations	4	706
Building, exterior finishes	4	705
interior finish	4	706
in the United States	4	701
lease	4	709
laws	4	708
Buildings, non-fireproof	4	704
Bulkhead	5	7
Bungalow	5	24
Caisson	5	150
Canals	5	481
barge	3	247
Canopy	5	525
Capital	5	560
Car building	5	576
baggage cars	5	580
combination cars	5	580
freight cars	5	580
features of construction	5	580
passenger cars	5	579
sleeping cars	5	579
special service cars	5	580
street railway cars	5	581
Carpentry	5	655
Casino	5	704
Castles	6	10
Cathedrals and churches	6	57
Chapel	6	295
Chapter-house	6	300
Clapboard	7	32
Concrete, composition	7	468
construction	7	467
costs of	7	469
destructive agencies	7	469
efflorescence	7	469
massive, applications of	7	470
machine mixers	7	474
mixing	7	468
plain, applications of	7	470
proportions	7	468
reinforced	7	471
reinforced, floor loadings	7	473
reinforced, structural forms	7	471
reinforced, use of steel	7	471
roads	7	470
strength	7	468
surface treatment	7	469
walls	7	470
waterproofing, cost of	7	469
Construction, concrete	7	467
fireproof	11	249
fire-resisting	11	249
iron skeleton	15	382
slow-burning	4	702
steel-skeleton	4	702
Cornice	7	714
Cottage	8	58
Dais	8	412
Dams	8	433
bridge	8	438
curtain	8	438
frame	8	438
high masonry	8	440
masonry	8	436
metal	8	439
movable	8	437
rock-fill	8	439
roller	8	438
shutter	8	438
timber	8	436
wicket	8	438
Docks	13	690
dry	13	690
Decoration, interior	15	217
Decorative art	8	567
Dolmen	9	238
Door	9	262
Dormitory	9	266
Dredging	9	325
Dripstone	9	337
Earth-houses	9	494
Elevators	10	225
air cushions	10	230
belt-driven	10	226
electric	10	227
hydraulic	10	226
safety appliances	10	228
steam	10	226
Embankments	8	434
Escalator	10	489
Excavation	10	617
Farm buildings	11	27
Fire doors	11	255
Fire escape	11	235
Fire extinguisher	11	235
Fire shutters	11	255
Fire windows	11	255
Fireproof construction	11	249
Fireproofing	4	704
designs	11	251
materials	11	250
special features	11	253
Fire-resisting construction	11	249
Flemish bond	11	346
Floor	11	361
Flying buttress	11	406
Foundation	11	533
cofferdam method of construction	11	537
crib and open caisson method of construction	11	537
pile	11	534
platform	11	537
pneumatic caisson method of construction	11	537
pneumatic forcing method	11	540
skycraper	11	537
soils	11	534
soils, clay	11	534
soils, peat	11	534
soils, sand	11	534
subaqueous	11	537
well dredging method of construction	11	540
Fresco-painting	12	89
Gable	12	214
Harbors, docks and breakwaters	13	688
Heating, see **Heating, Lighting and Ventilation.**		
House	14	445
House-boat	14	445
Houses, floating	11	358
Lighting, see **Heating, Lighting and Ventilation.**		
Macadam	18	4
Masonry and building	18	389
Masonry, ashlar facing	18	390
bond stones	18	391
bricks	18	391
brickwork	18	391
history of	18	390
men and material	18	390
Materials, elastic failure	25	732
extensometers	25	730
laws of elasticity	25	728
shape of test pieces	25	730
strength of	25	728
stress relations	25	731
testing machines	25	729
working stress	25	732
Mural painting	19	599
Pavements	21	427
Piazza	22	61
Pier	22	73
Pile	22	84
Pillar	22	86
Plastering	22	224
Plumbing and steamfitting	22	256
Polychromy	22	327
Porch	22	372
Quarrying	23	58
Railway construction	23	154
blasting	23	155
bridges	23	158
cableways	23	158
crossovers	23	159
curving rails	23	157
drainage	23	155
draw bridges	23	157
elevation of curves	23	156
facing and trailing points	23	159
frogs and switches	23	156
gauging	23	155
grade crossings	23	157
laying rails	23	156
roadbed	23	158
safety appliances	23	157
spiking	23	155
storage tracks	23	159
surveys	23	157
switch stands	23	159
tunnels	23	160
turnouts	23	159
vitrified pipe culverts	23	155
wave motion	23	156
Refuse, collection and disposal of	24	264
Roads and highways	23	557
Roof	23	678
Sanitary engineering	24	262
Screen	24	449
Sewage disposal	24	264
Sewerage	24	264
Ship	24	716
Ships, concrete	7	474
concrete, history of	7	474

General — cont'd	Vol.	Page
concrete, methods of construction	7	474
Ship construction	24	718
	24	727
Shipbuilding industry	24	725
Shipbuilding industry, United States	24	725
Shipping and shipbuilding terms	24	729
Shipping Board, United States	24	727
Ships, cargo and ballast	24	722
fabricated	24	720
iron and steel	24	720
keel and frame	24	719
launching	24	720
masts and spars	24	721
rigging	24	721
	24	724
sails	24	721
steel	24	726
steel schooners	24	725
Sidewalk, traveling	27	20
Sleeper	25	96
Spile	22	84
Stair	25	471
Steel, structural, cleaning	25	587
structural, painting	25	589
structural, preservation of	25	586
structural, rust	25	586
Steeple	25	608
Stone-cutting and dressing	25	684
Stoop	25	696
Story or storey	25	700
Stucco	25	750
Subways	25	776
construction	25	778
Transept	27	4
Traveling sidewalk	27	20
Tunneling, ancient history	27	156
excavation	27	159
in middle ages	27	157
in quick sand	27	160
lining	27	159
methods of operation	27	157
pilot method	27	159
shield method	27	161
sub-acqueous	27	161
timbering	27	159
Tunnels	27	146
and tunneling	27	156
modern	27	157
Vault	27	701
Ventilation, see Heating, Lighting and Ventilation.		
Villa	28	86
Water proofing	29	75
Water-purification of	24	262
	29	45
Water supply	24	262
	29	39
Water works	29	102
Wharves and wharf construction	29	237
Whispering gallery	29	260
Wicket	29	298
Window	29	384
dormer	9	266
See also Engineering, Civil and Marine.		

Building Materials

Building Materials — cont'd	Vol.	Page
Adobe	1	147
Asbestos	2	376
	5	442
Asphalt	2	405
	17	46
Beam	3	377
Brick	4	489
	4	714
	18	391
Bristol	4	551
sand-lime	19	161
Brownstone	4	622
Building materials	4	710
Caen-stone	5	138
Calcimine	5	178
	16	286
Carrara	5	663
Cement	6	189
natural rock	6	189
Concrete	7	464
reinforced	7	471
Corrugated iron	8	21
Fire brick	11	234
Fire-clay	11	234
Free stone	12	44
Galvanized iron	12	254
Glass, plate	12	700
window	12	699
wire	12	702
Granite	13	133
Iron	15	361
Kalsomine	16	286
Lime	17	440
Limestone	17	441
mountain	19	531
Locks	17	559
Lumber	17	728
Marble	5	442
	18	264
	23	59
Mortar	19	485
Mountain limestone	19	531
Onyx	20	696
Paint, see Paints and Varnishes.		
Paper hangings	28	233
Parquetry	21	342
Paving stone	23	62
Piles, disc	11	534
iron	11	534
screw	11	534
	22	84
spruce	11	536
timber	11	534
Portland cement	22	399
Portland stone	22	400
Putty	23	36
Quarrying	23	58
limestones and dolomites	23	59
marble	23	59
sandstones and quartzites	23	59
silica sand	23	59
siliceous crystalline rocks	23	59
slate	23	59
State resources	23	59
Sand	24	250
Sandstone	24	258
Scagliola	24	346
Screw	24	450
Shingle	24	714
Slate	25	83
Steel	25	562
structural, paint	25	587
Stone	4	712
	25	679
Stones, artificial	4	714
bond	18	391
Stucco	25	750
Terra cotta	4	715
Tiles	26	625
encaustic	10	314
Varnish, see Paints and Varnishes.		
Wall paper	28	233
Water glass	29	20
Whitewash	29	277
Wire glass	29	413
Wood	4	710
Zinc	29	710

Building Terms

	Vol.	Page
Ashlaring	15	98
Camber	15	99
Canch	15	99
Cant brick	15	99
Carcase	15	99
Chase mortise	15	99
Carriage	15	99
Dabbing	15	100
Derby float	15	100
Drift joint	15	101
Droving and striping	15	101
Flashing	15	101
Flight	15	102
Flitch	15	102
Float	15	102
Gingerbread-work	15	102
Hogging	15	103
Laminated work	15	103
Place bricks	15	104
Pointing	15	104
Pugging	15	104
Raglet	15	104
Rendering	15	104
Screed	15	104
Torching	15	105
Unbalanced bid	7	398

Builders' Tools

	Vol.	Page
Anvil	2	49
Augers	26	695
Awls	26	695
Axe	2	681
	13	702
	25	684
	26	696
tooth	25	684
Bevels	26	691
Bits and braces	26	695
Builders' ware	13	702
Caliper rules	26	692
Caliper squares	26	692
Calipers	26	692
Centre punch	26	692
Chalk line	26	691
Chisel	6	569
	25	684
	26	693
Clamps	26	692
Compasses	26	692
Crane	8	157
Derrick	8	716
Dies	9	96
	26	697
Drawing knives	26	693
Dredge	9	323
dipper	9	324
grab	9	324
hydraulic	9	324
ladder	9	324
scouring	9	325
universal	9	324
Drills	18	697
	26	697
Drop hammers	18	698
Emery wheels	26	694
Files	11	206
	13	703
	26	693

Builders' Tools—cont'd	Vol.	Page
Gauges	26	691
	26	696
Gimlets	26	695
Gouges	26	693
Grindstones	1	49
	26	694
Hammer	13	664
	25	684
	26	695
bush	25	684
face	25	684
pean	25	684
Hatchet	26	696
Jack	15	572
	22	266
Knife	16	480
Mallet	18	167
	26	695
Mitre box	26	691
Oilstone	1	49
	20	632
	26	694
Pick	25	684
Pile-driver	22	84
Pincers	26	692
Planes	26	693

Builders' Tools—cont'd	Vol.	Page
Plumbing apparatus, autogenous	2	641
Plumb-level	26	691
Plumb-line	22	258
Plummet	22	258
Pulley	22	795
Punches	18	697
Rasps	13	703
	26	693
Reamers	26	697
Rule	26	691
Sand-blast	24	250
Sand-paper	24	251
Saw	13	702
	18	698
	24	334
	26	692
back	24	337
compass	24	336
cross-cut	24	338
frame	24	337
gauge	24	336
hack	24	338
hand	24	336
keyhole	24	336
rip	24	336

Builders' Tools—cont'd	Vol.	Page
Screws	24	450
Sheers	24	677
Shovels	13	702
Spirit-level	25	420
	26	691
Spoke shave	26	693
Square	26	691
Squares, try	26	691
Straight-edge	26	691
Tools	26	690
masonry	26	697
mechanics	13	704
metal working	26	696
pneumatic	22	265
woodworking	26	691
Trammel	26	692
Vise	28	133
Wedge	18	504
	29	153
Whetstone	1	49
Wood mortising machine	15	282
Woodworking machinery	29	487
See also **Architecture; Engineering.**		

CHEMISTRY AND CHEMICALS

General	Vol.	Page
A B C Process	1	27
Absorption	1	55
Acetylene gas from calcium carbide	15	285
Acidimetry	6	386
Acids	1	93
	6	390
Acker process	10	189
Æthogen	1	203
Affinity	1	206
Agricultural chemistry	1	243
Air	1	244
Air gas	1	288
Alchemy	1	343
	13	21
Alchymy	1	343
Alcoholometry	1	350
Alkalimetry	1	405
	6	386
Allotropism	1	424
Allotropy	1	424
Alums	1	453
	6	390
Ammonia water	1	578
	2	104
Amorphism	1	584
Analysis by oxidation	28	178
Analysis by precipitation	28	178
Analysis by reduction	28	178
Analysis by saturation	28	178
Analysis, volumetric	20	105
Analyst	1	614
Anhydrid	1	695

General — cont'd	Vol.	Page
Animals, chemical sense in	1	704
Antichlor	2	26
Antifebrin	2	30
Antitoxin, diphtheria	26	734
Antimony ocher	6	229
Aqua	2	104
Aquadag	2	105
Aroma	2	320
Artificial precious stones	6	406
Ash of milk	19	104
Atmolysis	2	507
Atomic heat	2	511
theory	2	509
weights	2	510
	2	513
Aurous salts	13	9
Avogadro's hypothesis	2	680
law	2	510
	6	395
Babcock extinguisher	11	236
test	8	406
Base	3	301
Binary theory	3	713
Biochemistry	6	402
Bitumen process	4	26
Black ash	4	32
Bleaching	4	72
Bleaching materials	4	74
	6	390
Blowpipe analysis	4	121
Blue water gas	20	19

General — cont'd	Vol.	Page
Berthollet's fulminating silver	12	157
Borosilicate glass	12	694
Boyle's fuming liquor	4	376
Boyle's law	12	320
	17	473
	17	496
Brewers' yeast	11	127
Bunsen burners	4	121
Burton process of distillation	21	691
Calcination	5	158
Caput mortuum vitrioli	7	236
Celsius scale	6	176
Celtium	18	704
Cerebrin	6	224
Cervantite	6	229
Chalcocite	6	250
Charles' law	17	473
Chemia	13	21
Chemical affinity	6	380
analysis	6	380
crystallography	6	386
industry, the	6	388
industry of Russia	24	47
laboratory	16	617
mineralogy	19	166
preservatives of milk	19	106
products of Mexico	18	751
pulps	15	99
works, French	11	708
Chemistry	6	80
	6	392

General — cont'd	Vol.	Page
colloid	7	272
progress of	6	402
Chlor-aurates	13	9
Chlorimetry	6	386
	6	575
Coagulation	7	143
Coal-tar	7	157
industry	6	406
products	6	390
	7	162
Colemanite	7	243
Colloids	7	272
Colloid chemistry	7	272
Coloring matter	7	329
Combustibility of diamonds	9	62
Combustion	17	493
Composition of water	6	150
Contact metamorphism	23	610
Coralline	7	678
Corpuscular hypothesis	2	513
Cotoine	8	58
Cows' milk	19	103
Cracking process of distillation	21	691
Critical pressure	17	496
Critical temperature	5	591
	17	496
Crown glass	8	247
Crucible	8	253
Cryptidine	8	266
Dalton's law	8	424
Dalton's theory	2	510
Decomposition, chemical	8	566
Decomposition of acids by metals	17	482
Decomposition of alkali solutions by metals	17	482
Decomposition of water by means of iron	17	483
Decomposition of water by metals	17	482
Deliquescence	8	622
Denatured alcohol	8	674
Dephlogisticated air	17	120
Destructive process of distillation	21	691
Determinative mineralogy	9	23
Detonation	9	27
Dewar bulb	17	484
Dialysis	9	60
Diazo compound	9	76
Diamonds, combustibility of	9	62
Diphtheria, antitoxin	26	734
Dissociation	9	170
Dissolution	9	171
Distillation	9	173
	21	691
apparatus	9	173
of spirits	9	173
of water	9	173
process	9	173
theory of	9	173
Döbereiner's lamp	9	214
Dulcamarin	9	392
Dulong and Petit's law	2	511
Dutch liquid	9	437
Dyestuffs and extracts	6	391
Earths	9	499
Elain	10	47
Elaine	10	47
Elective affinity	10	68
Electric bath	10	94
chemicals	6	390
Electrochemical equivalents	10	184
Electrochemistry	6	403
	10	193

General — cont'd	Vol.	Page
Electrolysis	10	197
	17	492
	17	494
of aqueous solution	17	482
of gas and water mains	10	198
of water	17	489
Electrolytic dissociation method	6	401
	6	385
Element	10	219
Enameling	10	311
Enamels	10	311
Enantiomorphism	6	388
Endosmosis	21	22
Energetics	10	327
Equilibrium, chemical	10	461
Equivalent	10	465
Essence	10	513
Ether	10	533
Ethyl	10	553
Ethyl nitrate	20	377
Euchlorine	10	561
Europhen	10	583
Eutrophic series	6	387
Evaporation	10	594
	17	496
Expansion	10	641
	17	496
Experiment	10	643
Fehling's solution	11	96
Fermentation —		
contact action	11	126
catalytic action	11	126
Ferrate	11	138
Fick's theory	25	246
Filter	11	211
stones	11	211
Filtration	11	211
Fine chemicals	6	390
Fining	11	223
Fire extinguisher	3	4
	11	235
Flotation	6	406
Flowers	11	394
Fractional crystallization	11	569
Fractional distillation	21	692
Frankincense	12	7
Freezing mixture	12	53
mixtures	17	496
Friction matches	15	282
Friedel and Craft's reaction	12	103
Fuchsine	12	142
Fulminates	12	157
Fulminating gold	2	554
Fulmination	12	157
Garancine	12	277
Gas	15	282
Gases	6	390
compressed	12	320
kinetic theory of	12	320
liquefaction of	12	324
liquified and compressed	17	471
Gas liquor	13	743
Gasometric analysis	12	314
Gas, producer	12	330
tar	5	588
	7	157
Gazogene	12	350
Geometrical isomerism	15	419
	25	625
Georgina paper	8	395
Gerhardt atomic weights	2	512
Gilsonite	12	658
Glass, physical properties of	12	694
Gold, chemical properties of	13	9
Grain elements	13	109
Gravimetric methods	6	385

General — cont'd	Vol.	Page
Guanin	13	511
Guayaquilite	13	521
Guthrie's eutectic alloy	4	19
Haber process	17	476
	17	484
Heat exchanger	17	496
Heller's test	27	595
Holmium	18	704
Hops, nitrogenous constituents of	14	375
Humus	14	497
	25	227
Hydrate theory	25	247
Hydrogen	10	189
Hydrolysis process	11	126
Hypobromite process	27	595
Ignis fatuus	14	672
Ignition of nitre	17	490
Illuminating gas	17	475
Imide	14	708
Indian red	7	236
Inflammable air	14	575
Instantaneous light boxes	18	423
International atomic weights	6	394
Ionic theory	25	247
Iron and steel, chemistry as an aid to the manufacture of	6	404
Iron founding, chemistry of	15	368
Isolation	15	416
Isomeric twins	26	626
Isomerism	15	419
	25	623
Isomorphism	15	421
Javelle water	15	760
Joule — Thomson effect	17	496
Kraft paper	6	407
Laboratory	17	494
Leaching	22	545
Leblanc process	25	222
Lightest known substance	14	575
Liquefaction of gases	17	495
Liquid air	17	492
Liquefied and compressed gases	17	471
Lixiviation	17	545
Low temperatures	17	496
Lutecium	18	704
McAfee process of distillation	21	692
Magdeburg hemispheres	18	114
Magnetic segregation	18	125
Mascagnine	18	375
Mascagnite	18	375
Matter	18	440
Mauve	18	453
Mechanical pulp	6	407
Medicine, chemistry and	6	226
Medicines	6	406
Melting point	18	609
Metalloid	18	699
Metals	18	703
Metamerism	15	419
	18	704
Microcosmic salt	19	32
Miles process	6	407
Milk, chemical preservatives of	19	106
Mineral spirit	9	179
Mitscherlich process	6	407
Moissan's researches	5	586
Motor fuels, chemistry and	6	403
Neosalvarsan	24	213
Nitrification of ammonia	11	128
Nitro-benzene	20	375
Nitro-benzol	20	375
Nitro-compounds	20	375

General — cont'd	Vol.	Page
Nitrogen compounds	6	405
Nitrous ether	20	377
Nobel Prizes	20	383
Optical isomerism	25	623
isomers	25	626
Organic analysis	6	386
Osmosis	21	22
	25	246
Osmotic pressure	6	401
	25	246
Oxides of gold	13	9
Oxy-acetylene cutting torch	17	474
Oxy-acids	21	79
Oxygen	10	189
Oxygen, manufacture of	17	490
	17	492
Oxymuriate match	18	423
Oysprosium	18	704
Ozone	10	193
	17	493
manufacture of	17	494
uses of	17	494
Pæonine	7	678
Paper, chemistry and	6	407
Pavy's solution	21	429
Percussion powder	13	580
Perfumes	6	407
Periodic law	2	511
	6	398
	21	587
Permanent gases	17	496
Phlogiston	6	393
	21	784
theory	21	784
Phosphorus bottle	18	423
Photo-chemistry	21	797
Photosynthesis	22	16
Physical chemistry	6	400
Pintsch gas	17	473
system	22	104
Piperazine	22	111
Plastics	6	390
Polybasic acids	22	326
Polymerism	15	419
Polymorphism	6	387
Potassium products	6	390
Power	6	403
	22	478
Precipitate	22	526
Preservation of timber	29	476
Propyl	22	668
Proteins sulphur reaction	22	677
xanthoproteic reaction	22	677
Prout's hypothesis	2	513
Prussian blue	9	141
Purple of Cassius	13	10
Quinine, manufacture of	23	95
Radical	23	120
Radicle	23	120
theory	16	510
Reaction	23	243
Rectify	23	275
Red coal	6	303
Regenerative method	17	496
Rittman process of distillation	21	692
Rocks, chemical composition of	23	606
Rouge	7	236
	23	720
Royal water	2	104
Rubber	6	407
	23	739
Salts	24	207
Salts of milk	19	104
Salvarsan	24	213
Saturation	25	247
Schulze theory	11	127
Secondary enrichment	24	515

General — cont'd	Vol.	Page
Sewage	6	407
Smoke	25	134
Soda	6	405
Sodas and sodium products	6	390
Sodium	25	221
Solutions	25	245
Solvay process	25	223
Spirits, refining of	9	175
Spontaneous combustion	17	490
Standard solutions	28	178
Steel alloys	6	404
Stereo-chemistry	25	623
Strong water	2	104
Sublimation	25	761
Sulphate of ammonia	11	146
Sulphite pulp	6	407
Sulphocyanic acid	25	812
Symbols, chemical	26	163
Synthesis, chemical	26	176
Synthetic camphor	5	284
Test paper	26	453
Thermal chemistry	26	525
method	17	494
Thermochemistry	6	400
	26	525
Thiocyanic acid	25	812
Toxins and antitoxins	26	731
Transpiration	27	7
Traube's theory	11	127
Ultra-violet rays	17	494
Urinary analysis	27	594
Uses of ozone	17	494
Valence theory	16	336
Valency	27	643
Vaporization	9	173
Volumetric analysis	28	178
Volumetric methods	6	385
Vulcanization	23	740
Wash bottle	28	770
Water gas	29	19
glass	29	20
of life	2	104
production of	15	282
softening	29	37
Wells' process of distillation	21	693

Explosives

Accelerographs	1	67
Aerial torpedoes	1	179
Atlas powder	2	507
Ballistite	25	136
Bengal light	3	512
Bengola light	3	512
Black gunpowder	25	136
Blasting powder	13	556
Bleiazid	4	76
Bomb explosives	10	657
Centralite	25	137
Charbon rouge	6	303
Charcoal	6	303
	13	554
Chinese fire	6	554
Chlorate mixtures	10	654
Collodion	13	550
Collodion cotton	13	549
Cordite	7	688
	25	136
Detonators	9	27
Dualine	9	367
Du Pont smokeless powder	9	412
	25	137
Dynamite	9	460
	10	654
	10	655
	15	284
Dynamite with an active base	10	655

Explosives — cont'd	Vol.	Page
Dynamite with an inert base	10	654
E. C. sporting powder	9	472
Explosive gelatine	10	651
	15	284
Explosives	6	391
	10	652
classification of	10	654
uses of	10	658
Filite	25	136
Flameless explosives	10	656
Flashless powder	25	137
Fulminates	10	655
Glonoin	20	375
Grenade explosives	10	657
Guncotton	13	547
	13	549
	15	283
Gunpowder	13	553
Indurite	25	137
Joveite	16	224
Lyddite	17	772
Maximite	18	459
Melinite	18	605
Nitramidine	13	547
Nitrate mixtures	10	654
Nitric esters	10	654
Nitrocellulose	13	549
	20	375
Nitrocotton	13	549
Nitroglycerin	20	375
Nitro-glycerine	15	283
Nobel's blasting oil	20	376
Organic nitrate mixture	10	655
Organic nitrates	10	654
Oxidizing mixtures	10	654
Permissible explosives	10	656
Pneumatic guns	13	549
Poudre B	25	136
Poudre BN	25	136
Progressive smokeless powder	25	137
Pyrocellulose	13	549
Pyroxyline	13	549
Safety explosives	10	656
Saltpeter	13	554
Shell explosives	10	656
Smokeless gunpowder	13	556
powders	10	656
	25	136
Soluble guncotton	13	549
Sprengel explosives	10	655
Stabillite	25	468
Sulphur	13	554
T. N. A	26	195
T. N. T	27	67
T. N. X	26	195
Tetranitroaniline	26	195
Tetranitrous thylaniline	26	456
Tetryl	26	456
Toluene	26	677
Toluol	7	163
Trinitroglycerin	20	376
Trinitrophenyline thylnitramine	26	456
Trinitrotoluene	27	67
Trinitroxylene	26	195
Veloxite	27	725
Walsrode powder	25	137
Xyloidine	13	547

Elements

Aluminium	1	455
Aluminum	1	455
	18	704
Antimony	2	34
	18	704
Argon	2	222
	15	285
	17	477
	21	588

Elements — cont'd	Vol.	Page
Arsenic	2	331
	18	704
	25	592
Barium	3	252
	15	282
	18	704
	21	588
	23	127
Beryllium	3	584
	12	725
Bismuth	4	19
	18	704
Boron	4	281
Bromine	4	576
	15	282
	21	588
	22	2
Cadmium	5	134
	18	704
Cæsium	5	142
	18	704
	21	588
Calcium	5	159
	15	282
	18	704
	21	588
	22	190
	22	198
Carbon	5	589
	22	197
	25	624
Cerium	6	225
	18	704
Chlorine	6	406
	6	575
	17	479
	18	728
	21	588
	22	190
Chromium	6	632
	18	704
	25	592
Cobalt	7	173
	18	704
Copper	7	652
	18	704
	25	592
Dysprosium	10	219
Eka-Boron (Scandium)	21	590
Erbium	10	469
Elements, chemical	10	219
Europium	10	583
Fluorine	11	403
	21	588
Gadolinium	18	704
Gallium	12	249
	18	704
Germanium	12	503
	18	704
Glucinum	12	725
	18	704
Gold	13	8
	18	704
Helium	2	477
	14	80
	17	481
	23	125
Holmium	10	219
	18	704
Hydrogen	10	189
	14	574
	17	482
	22	197
Indium	15	67
	18	704
Iodine	6	510
	8	127
	15	288
	21	588
Iridium	15	324
	18	704

Elements — cont'd	Vol.	Page
Iron	15	361
	18	704
	22	190
Krypton	16	549
	21	588
Lanthanum	16	737
	18	704
Lead	17	171
	18	704
Lithium	18	704
	17	513
Lutecium	10	219
	18	704
Magnesium	15	282
	18	124
	18	704
	21	588
	22	190
	22	198
Manganese	18	210
	18	704
	25	592
Mercury	18	669
	18	704
Molybdenum	18	704
	19	332
	25	592
Neodymium	18	704
	20	73
Neon	17	484
	21	588
Nickel	18	704
	20	321
	25	592
Niobium	18	704
	20	366
Niton	20	371
Nitrogen	17	485
	22	190
	22	198
Osmium	18	704
	21	22
Oxygen	10	189
	17	120
	17	489
	21	588
	22	197
Palladium	18	704
	21	208
Phosphorus	22	197
	22	198
	25	592
Platinum	18	704
	22	229
Potassium	18	704
	21	588
	22	190
	22	197
	22	441
Praseodymium	18	704
Quicksilver	18	669
Radium	14	81
	15	285
	18	704
	23	121
	23	123
	23	125
	23	127
Rhodium	18	704
	23	476
Rubidium	18	704
	21	588
	23	748
Ruthenium	18	704
	24	67
Samarium	18	704
Scandium	18	704
	21	590
	24	353

Elements — cont'd	Vol.	Page
Selenium	21	588
	24	539
Silicon	15	282
	24	811
	25	592
Silver	18	704
Sodium	18	704
	21	588
	25	221
Strontium	15	282
	18	704
	21	588
Sulphur	21	588
	22	190
	22	198
	25	592
	26	1
Tantalum	18	704
	26	250
Tellurium	17	478
	21	588
	26	402
Terbium	10	219
	26	440
Thallium	18	704
	26	486
Thorium	18	704
	23	121
	23	123
	26	587
Thulium	18	704
Tin	18	704
	26	638
Titanium	18	704
Tungsten	18	704
	27	144
Uranium	15	282
	18	704
	27	589
Vanadium	18	704
	27	675
Xenon	21	588
	29	596
Ytterbium	18	704
	29	671
Yttrium	18	704
	29	671
Zinc	18	704
	29	710
Zirconium	18	704
	29	714

Organic

	Vol.	Page
Acetal	1	83
Acetamide	24	198
Acetnilide	1	83
Acetic acid	1	83
	1	92
	11	60
	23	44
fermentation	11	128
Acetic ether	1	84
Acetin	1	84
Aceto-acetic acid	1	84
Acetone	1	84
Acetonitrile	1	85
Acetphenetidin	21	720
Acetyl	1	85
Acetylene	14	550
	17	472
Acid potassium tartrate	22	443
Aconitic acid	1	96
Acrolein	1	104
Adipate	1	138
Adipic acid	1	138
	11	61
Adipocere	1	138
After-damp	6	584
Agaricic acid	1	230
Agaric resin	1	231
Albumen	1	340

Organic — cont'd	Vol.	Page
Albumin	1	340
	27	594
Albuminates	22	679
Albuminoids	22	678
Albumins	22	678
Albumoses	22	679
Alcohol	1	345
	23	120
compound	7	447
Aldehyde	1	352
Aliphatic compounds	11	59
Alizarin	1	404
	9	453
Alkaloids	1	405
Alkene (olefine)	14	559
Alkine (acetylene)	14	559
Alkylene (olefine)	14	559
Alkyl	1	406
Allantoin	1	409
Alloxan	1	425
Allyl	1	429
Allylene (acetylene)	14	559
Alpha naphthol	19	693
Amide	1	573
Amido acids	1	573
Amidohexoic acid	17	326
Amine	1	574
Amines	7	447
Amino-acetic acid	12	732
Ammoniacum	1	579
Ammonium bicarbonate	25	223
Ammonium chloride	18	728
Ammonium iodide	18	728
Amphicreatine	17	326
Amphoteric	1	590
Amygdalin	1	596
	3	530
Amyl	1	597
acetate	1	597
alcohol	1	597
nitrate	1	597
Amylene hydrate	1	597
Amylocaine	25	701
Amylopsin	1	597
	21	242
Amylose	1	597
Anhydrous oxalic acid	21	69
Aniline	1	695
Aniline red	18	115
Animal chemistry	1	697
Animal starch	12	732
Anthracene	2	17
Anthracene oils	7	162
Anthracenes	7	162
Anthraquinone	2	19
Antipyrin	2	37
Arabin	2	129
Archil	2	168
Argol	22	443
Aristol	15	290
Aromatic compounds	2	320
vinegar	2	323
Attar of roses	2	520
	28	170
Azaleic acid	11	61
Azote	2	690
Benzaldehyde	3	530
Benzene	3	530
	14	579
Benzidine	3	531
Benzine	3	531
Benzoates	11	438
Benzoic acid	3	532
	11	438
aldehyde	3	530
Benzoin	3	532
gum	3	532
Benzol	7	163
Benzoyl	3	533
Benzyl	3	533
Berberine	3	536

Organic — cont'd	Vol.	Page
Bergamot, oil of	28	170
Betain	3	589
Betaine	3	589
Beta-naphthol	19	693
Bezoaric acid	10	251
Bitter almonds, oil of	28	170
Bog butter	1	138
Boreëne	4	280
Borneo camphene	4	280
camphor	4	279
Borneol	4	279
Boroglyceride	4	281
Boro-glycerine	4	281
Botany Bay gum	4	312
Brasilein	9	452
Brasilin	9	452
Bromoform	4	577
Brucine	4	626
Butane	5	76
	14	559
	21	277
Butter-fat	8	406
Butyric acid	5	93
	11	60
	25	672
fermentation	11	128
Cacodyle	5	130
Camphene	5	284
Camphine	5	284
Camphor	5	284
Camphoric acid	5	284
Capric acid	8	566
	11	60
Caproic acid	14	163
Caprylic acid	5	572
	20	575
Capsicin	5	572
Carbamide	27	591
Carbene	7	230
Carbohydrate	5	587
Carbolic acid	5	587
	11	61
	21	720
Carbolineum	5	588
Carbon compounds	5	590
Carbonic acid	11	61
Carmine	5	630
Carminic acid	5	630
Carotin	5	650
	22	18
Carthamin	9	453
Casein	5	698
Catalysis	6	43
Catalytic action	6	43
Catechin	9	472
Cellulose	6	175
	13	549
	21	257
Cetyl	6	233
Cevadine	28	11
Chemical process of living matter	22	45
Chinolin	23	96
Chloral	6	574
Chloralamide	6	575
Chloral formamide	6	575
hydrate	6	574
Chloralimide	6	575
Chloric acid	6	575
ether	6	575
Chlorodyne	6	577
Chloroform	6	577
Chlorogenin	9	453
Chlorophyll	6	578
	21	797
Choke damp	6	584
Cholesterin	6	586
Cholic acid	6	587
Choline	6	587
	20	101
Chrusocreatinine	17	326

Organic — cont'd	Vol.	Page
Chrysophanic acid	6	648
Cinnamic acid	6	686
Citric acid	1	92
	6	710
Cloves, oil of	7	133
	28	170
Coal-tar camphor	19	692
colors	11	445
products	7	162
Codeia	7	196
Codein	7	196
Codeina	7	196
Codeine	7	196
Colchicine	7	235
Collodion	7	271
Compound ammonias (amines)	7	447
Conquinnine	23	94
Coptine	7	668
Coumarin	8	95
Cream of tartar	2	222
	8	168
Creatine	8	169
	16	539
Creatinine	8	169
	16	540
Crenic acid	8	179
Creolin	8	179
Creosote	8	180
Cresol	8	181
Cresols	7	162
Crocin	8	217
Cumarin	8	95
Curcumin	9	453
Cyanamid	11	147
Cyanic acid	8	348
Cyanide	6	390
practice	8	348
Cyanogen	8	349
	15	282
Cyanuric acid	8	370
Cytase	11	126
Cytisine	8	375
Dahlin (Inulin)	8	395
Daphnin	8	470
Decoic acid	8	566
Desoxybenzoin	9	14
Dextrin	9	51
Dextrotartaric acid	26	276
Dextrose	9	52
Diabetic sugar	9	55
Diastase	9	73
	11	126
Diazo compounds	9	76
Dichloroethane	18	728
Diethyl sulphate	25	813
ether	10	533
Dihydroxysuccinic acid	26	276
Dimethyl, amino, benzoyl, ethyl, carbinal, hydrochloride	25	701
Dimethyl benzene	29	600
Dimethylamines	18	728
Diolefines (acetylene)	14	559
Dipalmitin	21	216
Dippel's oil	9	141
Distearin	11	58
Disulphocyanic acid	25	812
Dodecane	21	277
Dodecoic acid	17	111
Dyslysin	9	469
Elastin	10	54
Elaterin	10	54
Elaterium	10	54
Ellagic acid	10	251
Elemi	10	220
Emulsin	10	310
	11	126
Enneane	20	394
Ennyl	20	396
Ennyline	20	397

Organic — cont'd	Vol.	Page
Enzyme	10	406
Enzymes	11	126
	29	387
Erythric acid	10	487
Erythrite	10	488
Esters	10	521
Ethane	10	531
	14	559
	18	728
	21	277
Ether	10	533
Ethers	10	536
Ethyl	10	553
acetate	1	84
alcohol	1	346
	8	675
Ethylamine	10	553
Ethylene	10	554
	11	59
alcohol (glycol)	12	733
Ethyl ether	10	533
hydride	18	728
Ethyliodide	14	555
Ethyl iodide	18	728
sulphuric acid	25	813
Ethylic alcohol	18	728
Eucalyptus, oil of	28	170
Euphthalmine	10	577
Eupion	10	578
Eupione	10	578
Euxanthic acid	10	588
Expressed oils	10	665
Fats	11	58
Fatty acids	11	58
compounds	11	59
Ferment	11	126
Fermentation	11	126
	29	387
Firedamp	18	721
Fisetin	9	453
Formaldehyde	11	439
	19	107
	22	18
Formalin	11	490
Formic acid	11	60
	11	490
Free methyl	18	728
Fusel oil	12	202
Gallic acid	12	245
Gallotannic acid	26	248
Garlic, oil of	12	294
Gelatin	12	360
Gelatin sugar	12	732
Gelatine	12	360
Gelose	12	362
Globulins	12	719
	22	678
Glucoses	5	587
	12	726
Glucosides	12	728
Glutelins	22	678
Glycerides	12	731
Glycerin	12	731
Glycerol	12	731
Glycin	12	732
Glycocholic acid	12	732
Glycocin	12	732
Glycocoll	12	732
Glycogen	12	732
Glycol	12	733
Glycollic acid	11	61
	12	733
Glycoproteins	22	678
Glycyrrhizin	12	733
Glyoxaline	12	734
Glyoxalic acid	12	734
Glyoxylic acid	12	734
Guanidin	13	511
Gum tragacanth	26	765
Gum tragic	26	765
Hæmatein	9	453
Hæmatoxylin	17	612

Organic — cont'd	Vol.	Page
Harmaline	13	711
Harmine	13	711
Helenin	14	77
Hemoglobins	14	89
	22	678
Heptadecoic acid	18	280
Heptane	14	559
	21	277
Hexahydropyridine	22	112
Hexane	14	559
	21	277
Hexoic acid	5	572
	14	163
Hippuric acid	14	203
Histones	22	678
Hydriodic ether	14	555
Hydrocarbon	14	559
	17	483
	18	728
Hydroxybutyric acid	11	61
Hydroxyvaleric acid	11	61
Hyoscine	24	425
Indigo	3	37
	15	66
Indigotin	9	453
disulphonic acid	25	812
Indirubin	9	453
Inulase	11	126
Inulin	15	273
Inversion	15	286
Invertase	11	126
	15	287
Invertin	15	287
Iodoform	15	289
Iodoformin	15	290
Iodol	15	290
Isobutane	5	76
	14	559
Jelly, animal	16	11
Jelly, vegetable	16	11
Kreatine	8	169
	16	539
Lacmus	17	519
Lactic acid	11	61
	16	639
	25	623
	25	672
ferment	16	640
fermentation	11	128
Lactose	16	640
Lævotartaric acid	26	276
Lauric acid	11	60
	17	111
Lavender	17	118
Lavender, oil of	28	170
Lecithin	17	210
Lecithoproteins	22	678
Lemon, oil of	17	281
	28	170
Leucic acid	11	61
Leucin	17	326
Leucoline	23	96
Leucomaines	17	326
Leukol	23	96
Liquorice sugar	12	733
Lithates	27	589
Litmus	17	519
Luteolin	9	453
Maclurin	9	452
Madder	18	96
Magenta	18	115
Malic acid	18	165
Malonic acid	11	61
Mannite	18	231
Mannitol	18	231
Margaric acid	18	280
Marjoram oil	28	170
Marsh gas (Methane)	18	721
	18	728
Meconic acid	18	530
Melissic acid	11	60
Mercaptans	18	654
Mesotartaric acid	26	276

Organic — cont'd	Vol.	Page
Methane	14	559
	18	721
	21	277
	21	681
compounds	11	59
Menthol	18	652
Methyl alcohol	1	347
Methylamines	18	728
Methyl ammonium salts	18	728
Methyl and its derivatives	18	728
Methylated spirit	18	728
Methylene, bichloride of	18	729
Methylene malonic acid	25	625
Methylic alcohol	18	728
ether	18	728
Methyl salicylate	24	184
Michler's ketone	19	31
Milk fat	8	406
	19	104
Monamine	19	335
Mono-palmitin	21	216
Mono-potassium tartrate	22	443
Monostearin	11	58
Morin	9	452
Moth balls	19	692
Mucic acid	19	546
Mucilage	19	546
Munjistin	19	593
Murexide	19	605
Muscorine	19	613
Mustard, oil of	19	655
	20	629
Myricin	19	661
Myristic acid	19	661
Naphtha	19	691
solvent	19	691
Naphthalene	7	162
	19	692
Naphthalin	19	692
Naphthenes	21	681
Naphthol	19	692
Naphthyl	19	693
Narcotine	19	705
Natural alkaloids	1	405
	18	728
Neurine	20	101
Nonane	20	394
Nonic acid	21	481
Nonyl	20	396
Nonylene	20	397
Nucleoproteins	22	678
Octane	14	559
	21	277
Octoic acid	20	575
Œnanthol	20	594
Œnanthylic acid	20	594
Oils, essential	20	628
	28	170
volatile	28	170
Olefine	14	559
Olefins	21	681
Oleic acid	1	92
	20	659
Oleine	20	659
Onospin	20	693
Orcein	9	452
	20	738
Orchil	2	168
Orcin	20	752
Organo-metallic compounds	20	792
Origanum, oil of	28	170
Ortho-oxy-benzoic aldehyde	24	184
Ortho-toluidine	26	678
Otto of roses	2	520
	28	170
Oxalic acid	11	61
	21	69
fermentation	21	70
Oxidose	21	78

Organic — cont'd	Vol.	Page
Oxide of methyl	18	728
Oxy-acetic acid	12	733
Oxy-acids	21	79
Oxydimethyl-quinizen	2	37
Oxy-phenyl-di-methyl-pyrazole	2	37
Palmine	21	215
Palmitic acid	11	60
Palmitin	21	215
Para-acet-phenetidin	21	720
Paraffin	14	559
	21	277
Para-toluidines	26	678
Pectase	21	464
Pectic acids	21	465
Pectine	21	465
Pectose	21	464
Pelargonic acid	21	481
Pentane	14	559
	21	277
	21	681
Peppermint	21	566
Peppermint, oil of	28	170
Pepsin	11	126
	21	567
Peptids	22	679
Peptones	22	679
Petroleum	21	681
Phenacetin	21	720
Phenol	7	162
	21	720
Phenyl	21	721
benzyl-ketone	9	14
salicylate	24	195
Phosphoproteins	22	678
Phosphorus	10	192
Phytoserin	6	587
Picoline	22	69
Picric acid	22	70
Piperic acid	22	112
Piperidine	22	112
Piperine	22	112
Piperonal piperine	22	112
Prolamins	22	678
Propane	14	559
	21	277
Propionic acid	11	60
Protamines	22	678
Proteins	22	676
Proteoses	22	679
Prussic acid	14	561
Pseudocreatine	17	326
Pseudo-creatine	17	326
Pseudo-purpurin	9	453
Ptomaines	22	753
Purple	23	30
Purpurin	9	453
Purreic acid	10	588
Pyrene	23	41
Pyridine	23	43
Pyrogallic acid	23	43
Pyrogallol	23	43
Pyroligneous acid	23	44
Pyrotartaric acid	11	61
Quercetin	9	453
Quinidine	23	94
Quinina	23	94
Quinine	23	94
Quinoline	7	163
	23	96
Quinone	23	96
Racemic acid	25	626
	26	276
Resorcin	23	416
Resorcinol	23	416
Rhamnazin	9	453
Rhamnetin	9	453
Rosaniline	23	690
Saccharans	5	587
Saccharens	5	587
Saccharin	24	87

Organic — cont'd	Vol.	Page
Saccharins	5	587
Saccharons	5	587
Saccharoses	5	587
Salicin	24	183
Salicylic acid	11	439
	24	183
aldehyde	24	184
Salicylol	24	184
Salol	24	195
Santalin	9	452
Santonin	24	286
Sarcine	24	296
Sarcolactic acid	25	623
Sarcosine	24	297
Scopolamine	24	425
Sebacic acid	11	61
Shellac, solution of	13	755
Sincaline	20	101
Soap	25	154
Sodium salicylate	24	184
Solanine	25	234
Starch	25	492
Steapsin	21	242
Stearic acid	1	92
	11	60
	25	560
Stovaine	25	701
Succinic acid	11	61
	25	785
Sulphanilic acid	25	810
Sulphindigotic acid	25	812
Sulphenic acids	25	812
Sulphonal	25	812
Sulphonic acids	25	812
Sulphovinic acid	25	813
Sulphuric ether	10	533
Tannic acid	1	92
	26	248
Tannins	26	248
Tartar	2	222
	22	443
Tartaric acid	25	625
	26	276
Terpene	14	559
	26	444
Tetramethyldiaminobenzophenone	19	31
Theime	26	505
Theobromine	7	190
	26	508
Thio-alcohols	18	654
Thyme, oil of	26	604
	28	170
Thymol	26	604
Toluene	26	677
Toluidine	26	678
Toluol	7	163
Tragacanth	26	765
Tridecane	21	681
Tri-iodomethane (iodoform)	15	289
Trimethylamine	27	65
Trimethylamines	18	728
Trinitrophenol	22	70
Tri-oxy-benzene	23	143
Tri-palmitin	21	215
Triphenylmethyl	27	70
Tristearin	11	58
	25	560
Tropine	27	94
Trypsin	11	126
	21	242
Turpentine oil	27	206
	28	170
Urase	11	126
Urates	27	589
Ures	27	591
Uric acid	27	593
Urotropine	27	597
Valerianic acid	27	647
Valeric	27	647

Organic — cont'd	Vol.	Page
Vanadic acid	27	676
Vanillin	2	322
Veratrine	28	11
Verdigris	28	14
Vinegar	28	101
Viscous fermentation	28	133
Wine vinegar	28	101
Wood alcohol	1	347
	18	728
naphtha	18	728
vinegar	28	102
Wort	29	561
Xanthin	9	453
Xanthine	29	596
Xanthocreatinine	17	326
Xanthophyll	22	18
Xylene	29	600
Xylidine	29	600
Xyloidin	29	600
Xylol	7	163
Yeast	29	620
Zymase	11	126

Inorganic

	Vol.	Page
Acids	1	93
Actinium	1	106
Alkali	1	405
Allophane	1	424
Alum	1	453
Alumina	1	454
	10	191
Aluminum nitride	17	487
Alunite	1	458
Amblygonite	1	472
Ammonia	1	578
	13	743
	17	486
anhydrous	17	475
Ammonium nitrite	17	485
Anhydrite	1	695
Aqua regia	2	104
	20	375
Arsenious acid	2	333
Auric acid	2	554
Azote (nitrogen)	2	690
	17	485
Barium hypophosphite	14	608
oxide	17	491
peroxide	17	491
Baryta	17	491
Boracic acid	4	262
	4	281
	19	107
Borax	4	263
	17	46
Boric acid	1	92
	4	262
	11	439
Boussingaultite	4	354
Bromamide	4	575
Bromic acid	4	576
Bromide	4	576
Bromine	4	576
Calcined magnesia	18	124
Calcium	5	159
	10	188
Calcium carbide	5	161
	5	586
	10	191
chloride	5	161
hypophosphite	14	608
Calomel	5	229
Carbide	5	586
of chromium	5	586
of iron	5	586
of magnesium	5	586
of silicon	5	586
Carbon compounds	5	590
dichloride	5	591
dioxide	5	591
	17	478

Inorganic — cont'd	Vol.	Page
disulphide	5	592
monoxide	5	592
oxychloride	5	591
oxysulphide	5	591
subnitride	5	591
suboxide	5	591
tetrachloride	5	590
	17	480
trichloride	5	590
Carbonate of lime	4	171
Carbonates	5	593
	19	107
of iron	13	277
Carbon bisulphide	10	192
Carbonic anhydride	5	591
acid	4	31
acid gas	5	591
oxide	5	592
Carborundum	5	586
	5	595
Chemical mineralogy	19	166
nitrogen	2	222
Chile saltpetre	6	510
	20	372
Chlorates	6	575
Chlorine	10	189
	17	208
Chlorosulphonic acid	25	813
Colcothar	7	236
Copperas	7	666
Corrosive sublimate	8	21
Cubic nitre	6	510
Cyanide of potassium	14	561
	22	441
Diamidogen	14	554
Dioxide	14	575
Epsom salt	10	439
Europium	10	583
	18	704
Ferricyanic acid	14	561
Fluosilicates	11	403
	12	245
Gallium chloride	12	249
salts	12	249
Gasoline	12	329
Glacial phosphoric acid	21	795
Glass, chemical properties of	12	693
Glauber's salt	12	712
Glaucine	12	712
Gold, bichloride of	3	680
Hartshorn, spirits of	13	742
Hayesine	14	20
Hydrate	14	539
Hydrazine	14	554
Hydride	14	554
Hydriodic acid	14	554
Hydrobromic acid	14	558
Hydrochloric acid	1	92
	14	560
	25	672
Hydrocyanic acid	14	561
Hydrofluoric acid	1	92
	11	403
Hydrogen bromide	14	558
chloride	14	560
dioxide	4	74
iodide	14	554
monoxide	14	575
peroxide	4	74
Hydrogenite	17	483
Hydrosulphuric acid	26	4
Hypo	25	223
Hypochlorous acid	14	607
Hypophosphorus acid	14	608
Kainite	16	278
Kalinite	16	284
Kinetic theory	19	313
Laughing gas	17	102
	18	487
	20	377

Inorganic — cont'd	Vol.	Page
Linoleic acid	17	462
Liquid air	17	484
helium	14	81
Magnesia	18	124
Magnesium	10	188
Magnesium carbonate	18	124
chloride	18	124
oxide	18	124
salts	18	125
sulphate	18	124
Maxwell's formula	19	314
Mercuric cyanide	14	561
Metaphosphoric acid	21	795
Molecular theory	19	312
Monoxide	19	370
Mordant	19	443
Mordenite	19	443
Muriatic acid	1	92
	14	560
Murium	14	560
Mustard gas	19	655
Nascent state	19	711
Neutralization	20	104
Niter	20	372
Nitrate of silver	20	371
Nitrate of soda	17	45
	20	372
Nitrates	20	372
Nitric acid	1	91
	20	372
Nitrides	20	374
Nitrile	20	375
Nitrites	20	375
Nitro-benzol	20	375
Nitro-cellulose	20	375
Nitro-compounds	20	375
Nitro-hydrochloric acid	20	375
Nitro-muriatic acid	20	375
Nitrogen atmospheric	2	222
dioxide	17	486
fixation	10	192
monoxide	20	377
Nitrous acid	20	377
ether	20	377
oxide	17	486
	20	377
manufacture of	17	488
Nonyl	20	396
Occlusion	20	555
Orthophosphoric acid	21	794
Oxide	21	78
Perchlorates	21	571
Perchloric acid	21	571
Perozides	21	603
Phosgene	21	793
Phosphine	21	796
Phosphoric acid	1	92
	11	145
	21	794
	22	190
Phosphorus	21	796
pentoxide	21	795
Phosphorous acid	21	795
Photochemistry	21	797
Potash	6	390
	22	439
	24	199
nitrate of	20	372
red prussiate of	14	561
Potassium	10	188
Potassium bromide	22	442
chlorate	10	189
	22	442
chloride	22	441
compounds	22	441
cyanide	14	561
ferricyanide	14	561
hydrate	22	442
nitrate	17	485
	20	372
	22	442

Inorganic — cont'd	Vol.	Page
silico-fluoride	11	403
sulpho-cyanide	25	812
Prussic acid	14	561
Pyrophosphates	21	795
Pyrophosphoric acid	21	795
Rust	24	65
	25	586
Salt	14	561
	24	197
Saltpetre	17	485
	20	372
Sassolite	24	310
Selenic acid	24	539
Selenious acid	24	539
Selenium dioxide	24	539
Sesquioxide	21	78
Silicon	10	190
	24	811
Silicon carbide (carborundum)	5	595
	10	190
Siloxicon	10	190
Soda	17	208
caustic	10	188
	25	223
crystallized	25	223
nitrate of	17	45
Sodium	10	188
	25	221
hypophosphite	14	608
nitrate	17	485
	20	372
Spirit of salt	14	560
Sulpho-carbonic acid	5	592
Sulphonic acids	25	813
Sulphur	17	46
	26	1
Sulphur dioxide	17	494
Sulphuretted hydrogen	14	575
	26	4
Sulphuric acid	1	91
	6	404
	17	208
	26	5
	26	6
Sulphurous acid	11	439
	26	7
Sulphur trioxide	21	78
Sylvite	26	159
Terbium	18	704
	26	440
Titanium carbide	10	191
Trona	27	86
Turpentine	27	206
Vitriol	28	155
oil of	26	5
	28	155
Vitriolic acid	28	155
Volumetric analysis	20	105
Washing crystals	25	223
Water	29	13
Zaffer	29	681
Zaffre	29	681
Zinc	29	710
chloride	17	480

Biographies

UNITED STATES

	Vol.	Page
Abel, John Jacob	1	34
Alsberg, Carl Lucas	1	443
Appleton, John Howard	2	89
Atwater, Wilbur Olin	2	528
Austen, Peter Townsend	2	560
Babcock, James Francis	3	4
Baekeland, Leo Hendrick	3	36
Bailey, Jacob Whitman	3	50
Bailey, Loring Woart	3	51
Baird, Julian William	3	56

Biographies — cont'd	Vol.	Page
Bancroft, Edward	3	133
Bancroft, Wilder Dwight	3	135
Bartlett, Edwin Julius	3	293
Bartley, Elias Hudson	3	295
Baskerville, Charles	3	311
Bennett, Alfred Allen	3	519
Bigelow, Samuel L.	3	697
Bigelow, Willard D.	3	697
Blair, Andrew Alexander	4	53
Bogert, Marston Taylor	4	154
Booth, James Curtis	4	252
Boyé, Martin Hans	4	374
Breneman, Abram Adam	4	465
Brown, William George	4	612
Cameron, Frank Kenneth	5	263
Campbell, Edward de Mille	5	278
Campbell, John Lyle	5	279
Chandler, Charles Frederick	6	285
Clarke, Frank Wigglesworth	7	47
Cooke, Joseph Parsons	7	624
Cornwall, Henry Bedinger	7	715
Cottrell, Frederick Gardner	8	90
Crafts, James Mason	8	149
Crampton, Charles Albert	8	152
Cushman, Allerton Seward	8	334
Dennis, Louis Munroe	8	686
Doremus, Charles Avery	9	264
Draper, John William	9	312
Dudley, William Lofland	9	383
Duncan, Robert Kennedy	9	401
Dupont, Lamotte	13	556
Eccles, Robert Gibson	9	722
Feuchtwanger, Lewis	11	159
Fields, John	11	187
Frankforter, George Bell	12	7
Franklin, Edward Curtis	12	12
Frasch, Herman	12	21
Genth, Frederick Augustus	12	402
Goessman, Charles Anthony	12	752
Gomberg, Moses	13	41
Gooch, Frank Austin	13	50
Grindley	13	479
Guthrie, Samuel	13	579
Hayes, Augustus Allen	14	17
Haynes, Elwood	14	21
Horsford, Eben Norton	14	416
Hunt, Thomas Sterry	14	512
Jackson, Charles Loring	15	578
Jenkins, Edward Hopkins	16	13
Johnson, Samuel William	16	179
Jones, Harry Clary	16	197
Jones, Walter	16	202
Joy, Charles Arad	16	225
Kahlenberg, Louis	16	276
Kedzie, Robert Clark	16	332
Kinnicutt Leonard Parker	16	450
Langenbeck, Karl	16	719
Lattimore, Samuel Allan	17	98
Lea, Matthew Carey	17	169
Leffmann, Henry	17	233
Lenher, Victor	17	285
Levy, Louis Edward	17	331
Lloyd, John Uri	17	549
Long, John Harper	17	636
Loomis, Silas Laurence	17	652
Mabery, Charles Frederic	18	1
Mallet, John William	18	167
Mell, Patrick Hues	18	666
Michael, Arthur	19	11
Mitchell, Samuel Latham	19	269
Morgan, John Livingston Rutgers	19	452
Morley, Edward Williams	19	461
Morse, Harmon Northrop	19	482
Morton, Henry	19	489
Mowbray, George W.	19	541
Munroe, Charles Edward	19	595
Nef, John Ulric	20	40
Nichols, William Henry	20	318
Norton, Sidney Augustus	20	435
Norton, Thomas Herbert	20	435
Novy, Frederick George	20	479
Noyes, Arthur Amos	20	480
Noyes, William Albert	20	480
Ordway, John Morse	20	771
Orndorff, William Ridgely	21	3
Orton, Edward J.	21	14
Parsons, Charles Lathrop	21	349
Powers, Frederick Belding	22	477
Prescott, Albert Benjamin	22	543
Remsen, Ira	23	366
Renwick, James	23	382
Richards, Ellen Henrietta Swallow	23	491
Richards, Theodore William	23	492
Richardson, Clifford	23	493
Rosanoff, Martin André	23	690
Sabin, Alvah Horton	24	80
Sadtler, Samuel Phillips	24	101
Schundt, Herman	24	381
Schreimer, Oswald	24	402
Sharples, Stephen Paschall	24	662
Sherman, Henry Clapp	24	703
Silliman, Benjamin	25	9
Smith, Alexander	25	112
Smith, Edgar Fahs	25	115
Smith, John Lawrence	25	123
Springer, Alfred	25	454
Stieglitz, Julius Oscar	25	645
Stillman, Thomas Bliss	25	650
Stoddard, John Tappan	25	665
Stokes, Henry Newlin	25	669
Storer, Francis Humphreys	25	697
Takamine, Jokiche	26	220
Talbot, Henry Paul	26	220
Tilden, William Augustus	26	624
Tillman, Samuel Escue	26	627
Traphagen, Frank Weiss	27	16
Vanuxem, Lardner	27	686
Venable, Francis Preston	27	725
Walker, William Hultz	28	231
Wells, Horace Lemuel	29	186
Wheeler, Henry Lord	29	250
Whitney, Willis Rodney	29	284
Wiley, Harvey Washington	29	316
Witthaus, Rudolph August	29	434
Wood, Edward Stickney	29	471
Woolf, Albert Edward	29	506
Wurtz, Henry	29	577
Youmans, Edward Livingston	29	648
Youmans, William Jay	29	648
Young, James	29	650

ENGLISH

Biographies — cont'd	Vol.	Page
Abel, Sir Frederick Augustus	1	35
Andrews, Thomas	1	675
Attfield, John	2	522
Baker, Herbert Brereton	3	60
Black, Joseph	4	31
Brande, William Thomas	4	410
Brown, Samuel	4	611
Cameron, Sir Charles (Alexander)	5	263
Cavendish, Henry	6	150
Church, Sir Arthur Herbert	6	652
Clowes, Frank	7	135
Dalton, John	8	422
Daniell, John Frederick	8	456
Davy, Sir Humphry	8	515
Dewar, Sir James	9	45
Ellis, William Hodgson	10	257
Frankland, Sir Edward	12	7
Frankland, Percy Faraday	12	8
Gladstone, John Hall	12	677
Graham, Thomas	13	108
Huggins, Sir William	14	81
Kane, Sir Robert John	16	291
Laurie, Arthur Pillans	17	111
Lawes, Sir John Bennett	17	142
Liveing, George Downing	17	530
Maddox, Richard Leach	18	96
Mayo, John	18	470
Mayow, John	18	470
Miller, William Lash	19	123
Mond, Ludwig	19	343
Nicholson, William	20	320
Pepper, John Henry	21	564
Perkin, Sir William Henry	21	599
Playfair, Lyon	22	243
Ramsay, Sir William	23	205
Redwood, Boverton	23	290
Reynolds, James Emerson	23	453
Roscoe, Henry Enfield	23	692
Ruttan, Robert Fulford	24	68
Saunders, William	24	320
Shuttleworth, Edward Buckingham	24	762
Soddy, Frederick	25	221
Tate, Alexander Norman	26	282
Thomson, Thomas	26	584
Travers, Morris William	27	20
Williamson, Alexander William	29	346
Wilson, George	29	357
Wollaston, William Hyde	29	443

FRENCH

Biographies — cont'd	Vol.	Page
Balard, Antoine Jerome	3	71
Baumé, Antoine	3	350
Berthollet, Claude Louis	3	580
Berthelot, Pierre Eugène	3	579
Boussingault, Jean Baptiste Joseph Dieudonné	4	354
Cailletel, Louis Paul	5	146
Chaptal, Jean Antoine Claude, Comte De Chanteloup	6	299
Chervreul, Michel-Eugene	6	431
Courtois, Bernard	8	126
Curie, Marie	8	308
Curie, Pierre	8	308
Darcet, Jean	8	472
Darcet, Jean Pierre Joseph	8	472
Derosne, Charles	8	714
Descroizilles, François Antoine Henri	8	720
Ditte, Alfred	9	197
Dumas, Jean Baptiste André	9	396
Figuier, Guillaume Louis	11	203

Biographies — cont'd	Vol.	Page
Flamel, Nicholas	11	329
Fourcroy, Antoine François de	11	549
Friedel, Charles	12	103
Gadolin, John	12	216
Gannal, Jean Nicholas	12	274
Gerhardt, Karl Friedrich	12	496
Guyton de Morveau, Louis Bernard	13	585
Hautefeuille, Paul Gabriel	13	762
Laurent, Auguste	17	110
Lavoisier, Antoine Laurent	17	120
Leblanc, Nicolas	17	208
Le Châtelier, Henri Louis	17	162
Lefebvre, Nicholas or Nicasius	17	232
Le Fevre, Nicolas or Nicasius	17	132
Lémery, Nicolas	17	278
Moissan, Henri	19	309
Orfila, Mathieu Joseph Bonaventure	20	788
Pasteur, Louis	21	373
Raoult, Francois Marie	23	215
Raspail, François Vincent	23	221
Regnault, Henri Victor	23	325
Sainte-Claire Deville, Henri Etienne	24	172
Thenard, Louis Jacques	26	507
Vauquelin, Louis Nicolas	27	705
Wurts, Charles Adolphe	29	577
GERMAN		
Accum, Friedrich	1	81
Achard, Franz Karl	1	86
Arendt, Rudolf	2	191
Baeyer, Adolph von	3	37
Beckmann, Johann	3	408
Beecher, Johann Joachim	3	402
Bischof, Karl Gustav Christoph	4	12
Brandt, Nicholas	4	413
Büchner, Eduard	4	663
Bunsen, Robert Wilhelm Eberard	5	26
Crollius, Oswald	8	221
Curtius, Theodor	8	319
Dippel, Johann Konrad	9	141
Döbereiner, Johann Wolfgang	9	214
Ehrlich, Paul	10	25
Eller, Johann Theodor	10	252
Erdmann, Otto Linné	10	471
Fehling, Hermann	11	96
Fischer, Emil	11	264
Fleischmann, Wilhelm	11	344
Geitner, Ernst August	12	360
Haber, Fritz	13	604
Hofmann, August Wilhelm von	14	310
Kekule von Stradonitz, Friedrich August	16	336
Klaproth, Martin Heinrich	16	469
Knorr, Ludwig	16	490
Kolbe, Adolph Wilhelm Hermann	16	510
Ladenburg, Albert	16	642
Liebig, Justus	17	405
Meyer, Lathar Julius	19	3
Meyer, Victor	19	3
Mitscherlich, Eilhard	19	272
Nernst, Walther	20	80
Ostwald, Wilhelm	21	37
Pettenkofer, Max Joseph von	21	696
Platten, Karl Friedrich	22	239
Rose, Heinrich	23	692
Valentine, Basilus	27	646
Vogel, Hermann Wilhelm	28	163
OTHER COUNTRIES		
Arrhenius, Svante Augusta	2	328
Avogadro, Amadeo	2	680
Beilstein, Friedrich Konrad	3	449
Bergman, Forbern Olof	3	547
Berzelius, Jöns Jakob	2	512
Butlerov, Alexander Mikhailovich	5	83
Cannizzaro, Stanislao	5	510
Cellini, Benvenuto	13	556
Ciamician, Giacomo	6	666
Eder, Joseph Maria	9	581
Eyde, Samuel	10	676
Hansen, E. C.	11	127
Helmont, Jan Baptista van	14	86
Ingenhousz, Jan	15	129
Liversidge, Archibald	17	538
Mendeleeff, Dimitri Ivanovitch	18	622
Mulder, Gerardus Johannes	19	552
Nobel, Alfred Bernard	20	382
Palmer, Vilhelm	21	211
Righi, Augusto	23	519
Scheele, Karl Wilhelm	24	364
Solvay, Ernest	25	249
Treadwell, Frederick Pearson	27	22
Van 'T Hoff, Jacobus Henrik	27	674
Werner, Alfred	29	194

See also Dyes and Dying; Fuels and Illuminants; Geology; Heating, Lighting and Ventilation; Medicine; Metallurgy; Mineralogy; Paints and Varnishes; Paper and Papermaking; Physics; Rubber; and under Domestic Economy — Soaps and Cosmetics.

COMMERCE AND INDUSTRY

General	Vol.	Page
Abandonment	1	7
	7	394
Abatement	7	394
Abbrochment	7	394
Abyssinia, Commerce of	1	58
Acaroid gum	1	67
Accident insurance	1	70
Accidents, industrial causes and prevention of	1	71
Accounting. See Auditing and Accounting.		
Achras sapota	6	457
Acid industry	1	91
Adding machine, simple	5	161
Adulteration	1	156
	7	394
Ad valorem	7	394
Advantage	7	394
Advertising	1	166
agencies	1	169
special	1	170
agricultural	1	168
development of	1	167
general	1	168
history of	1	166
mail	1	169
mail order	1	168
mediums	1	168
outdoor	1	168
periodical	1	168
psychology of	1	170
retail	1	167
street car	1	169
taxation of, in Great Britain	1	167
trade journal	1	168
poster art	22	436
signboards	24	804
signs	24	804
Advices	7	394
Affreightment	7	394
Afghanistan, agriculture	1	207
industrial products and trade	1	207
natural productions	1	207

General — cont'd	Vol.	Page
Africa, commercial conditions	1	222
Agency	1	235
Agreement	1	241
Agriculture. See **Agriculture.**		
Alabama commerce	1	302
Alabama manufactures	1	301
Alabama products	1	298
Alaska, commerce of	1	312
commercial development of	1	312
manufactures	1	315
Alaskan Boundary Commission	1	320
Albania industries	1	324
Alberta (Canada), industries	1	334
Alcohol	1	345
	12	146
denatured	8	674
ethyl	1	346
methyl	1	347
wood	1	347
All-around price	7	394
Allotment	7	394
Anthichlor	15	98
Anti-trust laws of United States	2	41
Appraisement	7	394
Appreciation	7	394
Arabia production	1	117
Argentina, commerce	2	214
commerce with United States	2	215
manufacturing	2	215
Arkansas, commerce	2	258
manufactures	2	257
Articles of association	7	394
Asbestos	2	376
	5	442
Asia, trade	2	394
Asia Minor, Industrial development	2	398
Asphalt	2	405
	17	46
uses of	2	406
Assignment	7	394
Ateliers Nationaux	2	490
Auction	2	534
Auctioneer	2	534
Auditing. See **Auditing and Accounting.**		
Australia, industries and commerce	2	598
Austria-Hungary, manufactures and commerce	2	622
Automobile. See **Automobiles and self-propelled Vehicles.**		
Automobile industry	2	663
Average	7	394
adjuster	7	394
Back spread	7	394
Baker's dozen	3	62
Bakery construction and equipment	4	450
Bake shop modern	4	448
Balance	7	394
Balance of trade	3	70
	7	394
Balkan commerce	28	642
Banian	3	145
Banking. See **Banking and Finance.**		
Bankrupt	3	148
	7	394
Bankruptcy laws	3	149
Banyan	3	145
Barrel	3	276
	20	168
Barrel-work	15	99

General — cont'd	Vol.	Page
Barter	3	287
Basket	3	311
Bavaria, manufactures	3	354
Bazaar	3	369
Bazar	3	369
Beaumontage	15	99
Beeswax	3	419
	3	430
	29	118
Belgium, manufactures	3	458
trade and commerce	3	459
Bengal (India), manufactures and commerce	3	512
Bill	3	703
	7	394
of adventure	3	703
	7	395
of credit	3	703
	7	395
of entry	3	703
	7	395
of exchange	3	703
	7	391
	7	395
of health	3	703
	7	395
of lading	3	703
	7	391
	7	395
of sale	3	704
	7	395
of sight	3	704
	7	395
of stores	7	395
of sufferance	7	395
Bird-lime	3	727
Blacklist	4	42
Blacklisting	4	43
Blind pool	7	395
Blockade	4	98
Blotter	7	395
Boarding-officer	7	395
Bodkin	4	145
Bolivia commerce	4	187
Bond	7	395
Bonded warehouse	4	210
	7	395
Bon Marché	4	202
Bonus	7	395
Bookkeeping. See **Auditing and Accounting.**		
Book-selling	4	233
Boothage	7	395
Border	15	99
Borneo products	4	278
Bossing	15	99
Bottle	4	317
Bottling	4	318
Bottomry	7	395
Bounty	4	342
	7	395
fiscal	4	342
Box cars	5	578
	5	580
Boycott	4	372
Brass industry	7	660
Brazil, commerce of	4	436
commercial treaties	7	402
manufacturing industries	4	437
Brazilian grass	4	444
Bread and bread making	4	447
Breakwaters	13	688
Brewing. See **Brewing, Distilling and Wine-making.**		
Bristles	4	547
British Columbia, commerce	4	555
industries	4	555
British commerce	13	250

General — cont'd	Vol.	Page
British North America Act	5	476
British South Africa Company	4	563
	23	472
	23	475
Bucket shop	7	395
Building. See **Building and Construction.**		
Building and Loan Associations	4	706
Building in United States	4	701
Building materials	4	710
Bulgaria industries	5	1
Burgundy pitch	5	43
Button	5	91
Buyer four (or ten, twenty, thirty or sixty)	7	395
By-bidder	7	395
By-products	20	3
Cabinetmaking	5	120
Cage-seat	15	99
Calculating machines	5	161
California, commerce	5	208
manufactures	5	207
Camarage	7	395
Canada, commerce	5	452
grain trade	5	437
manufactures	5	446
tariffs	5	452
Canaster	5	489
Candlenut	16	553
Candles, rolling of	5	496
Candle-wicks, the manufacture of	5	496
Canned goods exchange	5	507
Canning and preserving industry	5	505
Canning of fruits and vegetables	5	507
Canning of oysters and clams	5	509
Canning pickles, sauces, etc.	5	509
Canning processes	5	510
Canning tools	5	510
Car, baggage	5	580
building industry	5	575
combination	5	580
freight	5	580
passenger	5	579
sleeping	5	579
street railway	5	581
Caravan	5	585
Carbon black	5	589
Cardboard	5	590
Card indexes, chronological	5	597
Card indexing, commercial	5	597
Cargo or measurement tonnage	26	688
Carpet and rug industry	5	657
Carriage and wagon industry	5	667
Carrier	7	395
Carroting	13	755
Carrying-trade	5	675
Carton	17	191
Case	15	99
	17	192
Cash register	5	701
Castor	6	16
Catgut	6	51
	15	99
Cattle raising. See under **Agriculture — Stock-raising, also Domestic Animals.**		
Celluloid	6	175

General — cont'd	Vol.	Page
Cement	6	189
	19	160
early natural	22	398
hydraulic	6	189
natural rock	6	189
Portland	4	68
	6	189
	22	398
Pozzulana	6	189
production	6	189
slag	6	189
Census	6	194
Ceylon, manufactures and trade	6	236
pearl fisheries	6	236
vegetable products	6	236
Chambers of commerce	6	264
	11	711
Channeling machines	23	60
	23	61
Charge	7	395
Charges forward	7	395
Charras	6	336
Charter	7	395
party	7	395
Check	6	370
Chelone imbricata	26	714
Chemical industry	6	388
Chemicals. See **Chemistry and Chemicals.**		
Chewing-gum	6	433
Chicle-gum	6	457
Chile, commerce	6	507
commercial treaty	7	402
manufactures	6	506
tariffs	6	506
China, manufactures	6	520
trade and commerce	6	520
Chinese moss	12	362
Chinese Treaty of 1903	7	401
Chop	7	395
	15	99
Circulating medium	7	395
Clay-working machinery	7	71
Clearance	7	395
of vessels	7	78
Clear day	7	395
Clearing	7	395
Closing-machine	15	99
Clothing industry in America	7	126
Coal-tar	26	264
industry	6	406
products	6	390
	7	162
Coasting trade	7	171
Code de commerce	7	390
Cold storage	7	238
Collars and cuffs, manufacture of	7	262
Colombia, commerce	7	281
manufactures	7	281
Colombian Treaty (1846)	7	401
Colorado, manufactures of	7	319
Combinations	7	350
Commandite, En	7	364
Commerce and the Jews	16	117
Commerce, department of	7	366
history of	7	24
	7	367
increase of	22	365
internal, of the United States	7	372
interstate	7	377
of the world	7	381
	28	661
of the world, by grand divisions, 1913	7	383
problem	28	642

General — cont'd	Vol.	Page
United States with the grand divisions of the world	27	501
world, relation of the war to	28	661
Commercial	15	100
associations	7	385
courts	7	386
geography	7	387
law	7	390
life insurance	7	392
paper	7	393
struggles of Europe	14	282
terms	7	394
treaties	7	398
woods	17	731
Commutative contract	7	395
Company	7	425
continuation schools	24	388
Competition	7	429
Composition	7	395
Comptometer	7	451
Concession	7	396
Concrete	7	464
Condition of sale	7	396
Confectionary trade	7	487
Confirmation	7	396
Connecticut, industries	7	526
	7	527
manufactures	7	527
Conservation of natural resources	7	546
Consideration	7	548
Consignment	7	396
Construction. See **Building and Construction.**		
Consul	7	578
Consular service of the United States	7	579
Consumers' league	7	581
Consumption	7	581
Contents	7	396
Continental system of Napoleon	13	281
Continuous voyage	7	591
Contraband	7	396
	7	593
Contract	7	594
Conveyer	7	612
Cooked	7	396
Cooperage	7	639
Copper and brass industry	7	660
Copper, production of	24	46
Copra	7	667
Copyright	7	670
Cordage	7	680
Cord of masonry	29	167
Cordwood	7	690
Core-piece	15	100
Cork	7	696
Corner	7	396
	15	100
Corporation	7	396
Corporations, history of	8	2
Cosmetics. See under **Domestic Economy — Soaps and Cosmetics.**		
Cost, insurance and freight	7	396
Costa Rica, industry and commerce	8	42
	17	57
	17	78
manufactures	8	43
Cotton. See **Cotton and Cotton Products.**		
Coupon	7	396
Cracker industry	8	145
Crayons conté	7	583
Creasing	15	100

General — cont'd	Vol.	Page
Crédit Mobilier	8	173
of America	8	173
Croatia-Slavonia, industries	8	215
Cuba, commerce	8	285
	17	58
natural resources	8	279
Currency. See **Currency and Monetary Systems.**		
Cusco-bark	8	333
Customers, classification of	15	83
Custom-house	8	337
Customs duties	7	396
	8	338
German	12	588
Cuzco-bark	8	333
Cyanide industry	8	348
Dairying. See **Dairying and Dairy Products.**		
Dammar	8	431
Dandy	15	100
Dash-pot	15	100
Daylight saving	8	521
Days of grace	7	396
Dead-pledge	7	396
Deal	8	537
Dealers	15	83
Debenture	7	396
Delaware, commerce	8	610
manufactures	8	610
natural products	8	609
Del credere	7	396
	8	618
Demand and supply	8	631
Democracy as a form of industry	8	654
Demurrage	7	396
Denaturalized alcohol	8	674
Denmark, animal and vegetable products	8	680
commerce	8	681
manufactures	8	680
Departments of business administration	15	90
Desiccation	9	9
Detonators	9	27
Diamond gauge	9	66
Diamond industry	9	66
Dictaphone	9	86
	21	792
Differential	7	396
Direct-purchasing institutions	15	82
Directors	9	143
discretionary power	9	144
general qualification	9	144
liability	9	144
Discount	7	396
Distribution	9	186
Distilling. See **Brewing, Distilling and Wine-making.**		
Dock warrant	9	216
Docks	13	688
Doctor	15	100
Document Bill	7	396
Dolly	15	100
Dope	9	262
Drain-pipe	9	297
Drawback	7	396
Drug trade	9	345
Dry-goods trade, American	9	358
Drying machinery	9	366
	17	105
Due bill	7	396
	9	383
Dutch East India Company	9	437
	14	451

General — cont'd	Vol.	Page
Dutch West India Company, The	9	437
	12	177
Duty	9	441
Dyes. See **Dyes and Dyeing.**		
Earnest money	7	396
East India companies	9	503
Economics. See **Economics.**		
Ecuador, commerce	9	573
treaties	7	402
Education, commercial	9	597
higher commercial	9	599
industrial	9	627
technical	9	662
and national development	9	672
Efficiency engineering	9	714
Efficiency society	9	719
Egg industry	9	726
Egypt, commerce and industry	10	5
Electrical industries of the United States	10	152
Electrical machinery	18	61
Electrical manufacturing industry	10	151
Electric blue-print making	10	98
Electrochemical industries	10	185
Electroplating	10	188
	10	210
	15	101
Elevators	10	225
hydraulic	10	226
steam	10	226
Embargo	7	396
in the United States	10	273
Embossing	10	275
Enameled ware	13	704
Enamels and enameling	10	311
Engines. See **Engineering; Foundry Practice; Machinery and Machine Work.**		
Engine industry	10	345
English East India Company	9	504
Ethyl alcohol	8	675
Excelsior	10	618
Exchange	10	618
Exchanges	7	396
Excise	7	396
laws	10	619
Explosive gelatine	10	651
Explosives	10	652
transportation of	10	659
Exports	14	726
Exposition, industrial	10	660
Express service	10	661
Export trade of the United States	23	62
	27	501
	27	505
Factor	7	396
	10	698
acts	10	698
Factories, Fifty-eight Hour Law	10	700
sanitary provisions	10	701
Factory and factory inspection	10	699
Factory, development, English	10	699
Factory inspection, begun in England	10	700
International Association of	10	700
of boilers	10	701
Factory management	10	702

General — cont'd	Vol.	Page
aggregation of capital and plant	10	703
democracy in industry	10	703
massing of workers	10	702
specialization of processes	10	702
Factory system	10	705
advantages	10	706
domestic	10	705
evils	10	706
Fair trade	10	716
Fairs and shows	10	720
Feathers, artificial	11	76
Federal Trade Commission	11	84
	25	512
Feeder	11	94
Felting	13	755
Ferro-alloys	10	190
Fertilizers. See under **Agriculture — Fertilizers.**		
Fiduciary capacity	7	396
Filling can	15	101
Finance. See **Banking and Finance.**		
Firecrackers	23	45
Fire-gilding	15	101
Fiscal year	7	396
Fisheries. See **Fisheries.**		
Flaxseed	11	339
production in the United States	11	339
production of the world	11	340
Flint mill	11	358
Florida, commerce	11	372
manufactures	11	371
Flour milling, American	11	385
	23	28
Flowers, artificial	2	361
	11	394
Fly	15	102
Food preservation	11	435
Foreign commerce, United States	27	499
Force majeure	7	396
Forestry. See **Forestry and Lumbering.**		
Forwarding note	7	396
Four ports	7	396
France, commercial system	11	704
domestic industries	11	703
industries of	11	700
manufactures	11	702
merchant fleet	11	715
Franchises	11	742
provisions of	11	753
Franchise tax	11	742
Fraud orders, postal	12	27
Free alongside	7	396
F. O. B.	7	396
Free overside	7	396
Free ships and free goods	7	400
	12	43
Free stone	12	44
Free trade	12	44
Freight	12	54
handling	12	55
ocean	12	56
statistics	12	55
French East India Company	9	505
French Equatorial Africa, commerce	12	66
French establishments in India, commerce	12	67
French establishments in Oceania, commerce	12	67

General — cont'd	Vol.	Page
French Guiana, commerce and trade	12	68
French Indo-China, commerce and trade	12	72
products	12	72
French West Africa, products	12	82
French West Indies, Guadeloupe, commerce	12	84
Martinique, commerce and trade	12	85
Fruit	12	128
canning of	5	507
cold storage of	12	136
growing	12	131
industry	12	134
trade of Latin America	17	64
Fuels. See **Fuels and Illuminants.**		
Fuller's earth	12	155
Funds	7	396
Furniture industry in America	12	194
Furs. See **Furs and Fur-bearing Animals.**		
Fuse	12	201
Fused quartz	10	192
Garbage	12	278
disposal of	12	279
	24	267
Gazogene	12	350
Gentilhommes verriers	12	692
Georgia, manufactures	12	486
German Southwest Africa, industries	12	501
Germany, commerce	12	586
commerce with United States	12	589
commercial policy	12	588
customs duties	12	588
exports and imports	12	587
foreign commerce, distribution of	12	588
industries	12	590
internal and foreign commerce	12	586
Ginseng	12	660
Glass. See **Glass and Glass-making.**		
Glonoin	20	375
Glove manufacture in America	12	722
Glucose	12	726
composition and commercial standard	12	727
manufacture of	12	727
Glue	12	729
Chinese	6	554
Gluten	12	730
Glycerin	12	731
Goodwill	7	396
	13	57
Grain	13	109
elevator	5	437
	13	110
Standard Act	13	112
tin	15	102
Graphite	10	191
	13	151
	17	173
Grating	15	102
Great Britain, commerce of	13	250
commerce of the 18th century	13	248
co-operative movement	13	287
factory legislation	13	289

General — cont'd	Vol.	Page
foreign markets	13	225
free trade movement	13	338
industrial revolution	13	279
navigation acts	13	253
shipping	13	256
tariff movement	13	340
trade unionism	13	281
Greece, manufactures	13	377
Greenland, commerce	13	435
industries	13	435
Grinders	18	697
Grizzle	15	102
Gross	7	396
Guarantee	7	396
Guatemala, commerce	13	518
industries	13	518
Guiana, commerce	13	529
shipping	13	529
Gum Benjamin	3	532
Gutta percha	13	581
	27	93
Hair dressing	13	622
Hair manufactures	13	625
Handelsrecht	7	390
Hansabund	13	684
Hanseatic League	13	684
Harbors	13	688
Hardware. See **Hardware, Cutlery and Tools.**		
Hardware industry in America	13	699
Hats and hat making	13	754
Hats, beaver	13	754
felt	13	755
Leghorn	17	244
Neapolitan	13	756
Panama	13	756
silk	13	756
soft felt	13	755
stiff	13	756
straw	13	756
Hawaii, commerce	14	2
industries and production	14	1
Hedging	7	396
Hesse, or Hessen, Nassau, industries of	14	158
Hides. See **Shoes, Hides and Leather.**		
High seas	14	179
Honduras, industries	14	350
	17	59
	17	79
Honor	7	397
Hopper	15	103
Horn, utility of	14	383
Horticulture. See **Horticulture.**		
Hostelry	14	436
Hotel	14	436
	14	439
Hotels in America	14	437
Hudson's Bay Company	5	422
	5	424
	5	425
	12	177
	13	248
	14	472
Hungary, industries	14	502
trade	14	502
Ice, artificial	14	623
industry	14	622
making	23	316
natural	14	622
Iceland, commerce	14	628
industries	14	628
Idaho, manufactures	14	656
Illinois, manufactures	14	685
Immigration	14	713
Imports and exports	14	726

General — cont'd	Vol.	Page
Imports of United States	23	62
	27	501
	27	505
Impost	7	397
Income tax	14	741
Indenture	7	397
India, commerce of	15	6
manufactures of	15	6
Indiana, commerce	15	34
manufactures	15	34
Industrial alcohol	8	674
Industrial and commercial development of the United States	27	503
Industrial continuation courses	15	108
Industrial development of the United States	27	506
Industrial distribution	15	81
classification of customers	15	83
control of resale prices	15	83
institutes of trade	15	81
manufacturer's price problems	15	82
market	15	81
miscellaneous elements	15	84
prices	15	81
quantity prices	15	82
system of grades	15	87
Industrial exposition	10	660
Industrial fatigue	15	84
Industrial fruits	15	85
Industrial housing in United States	15	85
Industrial hygiene	15	87
Industrial insurance	15	179
Industrial laboratories	16	616
Industrial organization and administration	15	90
Industrial organizations	15	93
Industrial peace	15	93
Industrial pensions	21	549
Industrial Relations Commission	15	96
Industrial republic	15	96
Industrial revolution	10	35
	14	287
	15	96
	25	168
in England	13	278
	15	96
in the United States	15	98
Industrial schools	15	98
Industrial service	15	98
Industrial terms	15	98
Industrial vocational training	15	105
Industrial workers, education and training of	15	105
Industries, welfare work in	15	110
Insolvency	15	166
Insurance. See **Insurance.**		
Insurance, industrial	15	179
Ink	15	138
commerical marking	15	138
India	15	24
	15	138
printing	15	138
Standard Record	15	138
Inn	15	141
Innkeeper	15	141
Insolvent	7	397
Integraph	5	162
Integrator	5	162
Interchangeable parts	15	207
assembling	15	210
drawings	15	208

General — cont'd	Vol.	Page
inspection	15	210
Interest	15	213
Interior decoration	15	217
Interior, Department of	15	216
Interlocking directorates	15	224
Inventions	14	293
	15	281
list of important	15	281
Invoice	7	397
	15	288
Iowa, commerce	15	298
manufactures	15	297
Ireland, commerce	15	312
manufactures and trade	15	312
Iron. See **Iron and Steel.**		
Ironing machinery	17	106
Isinglass	15	411
Italy, economic conditions	15	538
international commerce	15	544
Ivory	11	476
	15	567
Ivories	15	563
Japanning	15	103
	15	747
Java, occupations and productions	15	755
trade and commerce	15	756
Jewelry. See **Gems, Jewelry and Precious Metals.**		
Jewelry trade	16	57
Jews, early traders	16	117
Hellenic, in commerce	16	117
in American commerce, industries and the professions	16	135
in commerce	16	117
Job's Tear	16	152
Joint stock company	7	397
	16	189
Joint stock plan	8	4
Judgment note	7	397
Kanaster	5	489
Kansas, manufactures	16	295
Kellow safety powder	16	343
Kelp (California)	5	208
Kentucky, manufactures	16	366
Keratin	16	375
Kerfing	15	103
Kiaboucca	16	397
Kinetophonograph	16	428
Korea, products	16	524
Kyabucca	16	563
Labor. See **Labor.**		
Laboratories, industrial	16	616
Labor-saving machinery, installation of	5	507
La Compagnie des Indes Orientales	9	505
Lacquers and lacquer work	16	636
Lagging	15	103
Lake and rail	7	397
Lampblack	16	683
Lantern slides, method of making	16	737
Larrying	15	103
Latin America, fruit trade	17	64
industrial development and commercial products	17	41
rice production in	17	66
Laundry machinery	17	105
Law Merchant	7	390
Lay-days	7	397

General — cont'd	Vol.	Page
Laying	15	103
Lead	10	187
	17	171
and zinc ores in Missouri	13	699
pencils	17	173
Leaders	15	83
Leather. See **Shoes, Hides and Leather.**		
Lease	7	397
Leghorn braids	13	756
Letter of advice	7	397
Letter of credit	7	395
	7	397
	10	662
Letter of delegation	7	397
Libraries, commercial and industrial	17	378
Licorice	17	403
Lighterage	7	397
Lime	17	440
Limestones	17	441
	23	59
Limitation	7	397
Limited liability company	7	397
Linoleum	17	462
Liquidation	7	397
Lloyd's bonds	17	550
Lloyd's register	17	550
Lock-making	17	560
Locomotive industry	17	580
Louisiana, commerce	17	682
manufactures	17	681
Lubricants	17	713
Lucifer	17	717
Lumber. See **Forestry and Lumbering.**		
Lupulin	14	377
Luzon, industries	17	766
Lye	17	773
Machinery. See **Foundry Practice, Machinery and Machine Work.**		
Machinery, manufacturing industry in America	18	58
Madagascar, commerce and industries of	18	94
Maine, manufactures	18	145
Manifest	7	397
Manifolding	15	103
Manipulation	7	397
Manitoba, manufactures and resources	18	222
Mantle	18	238
Manual training	18	240
Manufactures	5	446
	11	708
	18	225
	24	47
	24	300
	24	323
	24	431
	26	116
Manufacturers' distributive campaigns	15	84
Manufacturers' price problems	15	82
Manufacturing equipment	15	210
Manufacturing industries, United States	27	504
Manufacturing materials, United States	27	502
Manufacturing processes, administration of	15	91
Market in commerce	15	81
Marking material	6	253
Maryland, commerce	18	353
manufactures	18	352
Massachusetts, commerce	18	409

General — cont'd	Vol.	Page
manufactures	18	407
Match industry	18	422
Match, white phosphorus	21	797
Matched order	7	397
Measures. See **Weights and Measures.**		
Meat. See **Meat and Meat Products.**		
Mechanical power in various industries	12	593
Medicines, package	21	381
patent	21	380
proprietary	21	381
Memorandum sale	7	397
Mercantile agency	18	654
Merchandise exported	27	508
Merchandise imported	27	505
	27	508
Merchant Marine of the United States	18	657
Merchant vessels, neutral rights of	18	664
transfer of, from belligerent to neutral flags	18	665
Metals, production of	19	159
Metal work	18	696
Metal working machinery	18	696
Metals, bluing of	4	130
Methuen Treaty	13	249
Methylated spirit	18	728
Mexico, commerce	18	748
flour mills	18	752
manufactures	18	750
Michigan, commerce	19	23
fruit growing	19	21
manufactures	19	22
Milan braids	13	756
Milling	15	103
machines	18	697
Millstone	19	129
Mindanao, industries	19	148
Mineral naphtha	19	691
Mineral wool	19	163
Mining. See **Engineering; also Mining and Mineral Resources.**		
Minnesota, manufactures	19	203
Mississippi, manufactures	19	243
Monopoly	19	366
Montana, manufactures	19	389
Moratorium	7	397
Morocco, commerce	19	468
manufactures	19	468
Morris Plan (industrial)	19	479
Mortgage	7	397
Mosely Industrial Commission	19	497
Most favored nation	7	399
Mother-of-pearl	24	684
Motor	19	514
truck	19	517
Moving pictures	19	535
Mucilage	19	546
Nail industry	13	791
Napoleon's continental system	14	288
National Association of Corporation Schools	19	724
Naval stores	20	3
Navigation	20	7
Nebraska, manufactures	20	27
Negotiable paper	7	397
Net	7	397
Netherlands, manufactures and commerce	20	89
shipping and navigation	20	90

General — cont'd	Vol.	Page
Nevada, commerce and industries	20	108
Newfoundland, industries	20	269
manufactures	20	269
trade and commerce	20	269
New Hampshire, manufactures	20	125
New Jersey, manufactures	20	139
New Mexico, manufactures	20	150
New South Wales, commerce and industries	20	162
New York, commerce	20	192
harbor of	20	228
industrial importance of cities	20	192
manufactures	20	191
trade and commerce	20	220
New Zealand, industries	20	247
manufactures	20	249
shipping	20	250
trade	20	248
Nicaragua, industry and commerce	20	303
Nickel	10	187
	20	321
Nipple	15	103
Nitrification	20	374
Nitroglycerin	20	375
North Carolina, manufactures	20	414
North Dakota, manufactures	20	422
Northwest Company	12	177
	20	431
Norway, commerce	20	438
manufactures	20	438
shipping and navigation	20	438
Nova Scotia, manufactures	20	464
Numbering machine	20	486
Nut gall	20	509
Ocuba wax	20	575
Office labor-savers	20	598
Ohio, commerce	20	612
manufactures	20	612
Oils. See **Oils and Petroleum.**		
Oklahoma, manufactures	20	637
Old age insurance and pensions	20	648
Oleomargarine	20	659
Oliban	20	661
Olive	20	664
On memorandum	7	397
Ontario, manufactures and commerce	20	694
Open door	7	400
Open order	7	397
Opium traffic	20	712
Option	7	397
Orange industry	20	722
Oregon, commerce	20	779
manufactures	20	778
shipbuilding	20	776
Ostrich farming	21	37
Ostrich plumes	21	37
Outlawed	7	397
Ox gall	21	69
Ox horns	14	383
Oxygen, manufacture of	17	490
Oyster culture	21	82
Oysters and clams	5	509
Oysters, canning of	5	509
Ozone, manufacturing	17	494
Paints. See **Paints and Varnishes.**		
Palm seeds	21	217
Panama, industry and commerce	21	231

General — cont'd	Vol.	Page
Pan-American Commercial Congress	21	224
Pan-American Exposition	21	224
Panic	21	242
Paper. See **Paper and Paper-making.**		
Paper industry in America	21	266
Paraffin	21	277
Paraguay, commerce	21	279
imports and exports	21	280
industries	21	279
Parcel Post	21	292
Parchment	21	294
vegetable	21	294
Partnership	21	354
Passed dividend	7	397
Patent	21	382
assignments	21	385
design	21	385
foreign	21	385
history of	21	382
infringement of	21	384
laws of	21	381
office	21	398
what is a	21	382
what may be patented	21	382
who may obtain	21	382
Patented articles, marking of	21	384
Pawnbrokers	21	429
Pea canning	21	436
Peanut industry	21	452
Pearl button industry	21	455
Pearl buttons	24	684
Pedlar	21	465
Peddler	21	465
Pen	21	492
fountain	21	493
gold	21	493
industry	21	494
steel	21	492
Pennsylvania, commerce	21	522
manufactures	21	521
Permit	7	397
Per procuration	7	397
Persia, industry	21	616
Peru, commerce	21	645
manufactures	21	645
treaties	7	402
Petasus	13	754
Pharmacy	21	709
Petroleum. See **Oils and Petroleum.**		
Philippine Islands, commerce	21	755
exports and imports	21	756
Phonograph	21	792
Photoengraving	21	799
Photography	22	1
Photophone	22	14
Photoplay	22	15
Pickles, canning of	5	509
Pins, manufacture of	22	91
Pipe, brier-root	22	109
clay	22	109
fibre	22	108
manufacture of	22	107
meerschaum	22	109
tobacco	22	109
Turkish	22	109
Pitch	20	3
	22	120
Pitt's Commercial Treaty with the United States	5	453
Planers	18	698
Plaster of Paris	22	224
Plate marks	13	645
Plug work in quarries	23	60

General — cont'd	Vol.	Page
Polishing	22	308
materials	22	308
Pool	7	397
	27	109
Pooling combinations	27	109
Population, drift of, to industrial centers	22	367
Portland cement	4	68
	6	189
	22	398
manufacture of	22	399
Porto Rico, commerce	22	401
fruit industry	22	401
manufactures	22	402
Portugal, commerce	22	411
manufactures	22	411
shipping	22	411
Portuguese East India Company	9	504
Post and Postal Service	22	425
Postal Money-Order Service	22	432
Postdated	7	397
Potash, commercial	22	439
consumption in the pre-war time	22	440
costs of	22	443
deposits in Central Germany	22	440
material in the United States	22	440
material produced	22	440
plants, capacity of American	22	440
supply of the United States market	22	439
world's supply of commercial	22	439
Poultry. See **Poultry and Poultry Raising.**		
Poultry industry	22	467
Pouncing	13	756
Power, electric	22	429
Pozzuolana cement	6	189
Preference shares	9	198
Preferred creditor	7	397
Preferred stock	7	397
Premium	7	397
Preserving industry	5	505
Presses	18	698
Price current	7	397
Price mark	7	397
Price of money	7	397
Prices	22	568
in industry	15	81
quantity	15	82
Prime cost	7	397
Prince Edward Island, commerce	22	582
manufactures	22	582
Privileged buyers	15	83
Procuration fee	7	397
Procurator	7	397
Production	2	117
	22	632
specialization of	22	366
Profit sharing	22	633
Pro forma invoice	7	397
Proof in bankruptcy	7	397
Pro rata	7	397
Protective tariff, first	26	468
Protest	7	397
Protocol, industrial	22	690
Proxy	7	397
Prussia, manufactures	22	717
Public utilities	22	778
need for regulation of	22	780
obligations resting upon	22	779
regulation of	22	782

General — cont'd	Vol.	Page
Public utility commissions, powers of	22	782
Pueblo Indians, industries	22	789
Pug mill	15	104
Pulp, chemical	15	99
Pumice stone	17	197
Punjab, manufactures and trade	23	21
Putty	23	36
Pyrotechnics	23	45
Quarries, feathers in	23	60
production of	23	62
Quarrying	23	58
limestone	23	59
marble	23	59
sandstone	23	59
silica sand	23	59
siliceous rock	23	59
slate	23	59
Quarter-sawing	29	476
Quebec, trade and commerce	23	72
Queensland, commerce and manufactures	23	82
Quern	11	382
Quicklime	15	104
Quotation	7	397
Railroads. See **Engineering; Transportation and Communication.**		
Railway cars	23	140
Railway consolidation	23	143
Raisin industry, American	23	194
Rate of exchange	7	397
Rating	7	397
Rattan	21	216
	23	227
Razor hones	2	261
Readjustment	7	398
Rebate	7	398
Receiving yard	4	523
Reddle	6	253
Refrigerating machinery	23	312
Refrigeration	7	238
	25	86
Resale, control of prices	15	88
Resin	23	701
acaroid	1	67
Restraint of trade	23	421
Revenue Cutter Service	23	443
Revenue stamps, State	21	738
Rhode Island, commerce	23	467
manufactures	23	466
Right of search	23	520
Roller process of flour production	11	382
Roller skate	23	636
Rosin	23	701
Rothschild Collection	21	737
Rottenstone	23	718
Royal Commission on Industrial Training and Technical Education	5	377
Rubber. See **Rubber and Rubber Products.**		
Rumania, manufactures and commerce	23	765
Rushlights	5	495
Russia, industry	24	44
manufactures	24	47
Rye straw	24	72
uses of	24	72
Saccharin	24	87
Safe	24	101
Safe deposit vaults	24	103
Safe industry in America	24	102
Sailing vessels	24	112
Sales	24	182

General — cont'd Vol. Page

Salesmanship, psychology of ... 24 182
Salt ... 5 442
24 197
Bay ... 3 360
glaze ... 25 695
industry ... 24 200
California ... 24 201
Idaho ... 24 201
Illinois ... 24 202
Kansas ... 24 202
Louisiana ... 24 202
Michigan ... 24 202
Nevada ... 24 202
New York ... 24 202
Ohio ... 24 203
Oklahoma ... 24 203
Pennsylvania ... 24 203
Russia ... 24 47
Senegal ... 24 561
Texas ... 24 203
Utah ... 24 203
Virginia ... 24 203
West Virginia ... 24 203
making ... 24 201
mine, largest ... 24 200
patent for manufacturing ... 21 382
solar ... 24 201
springs, Syracuse ... 26 183
Salvador, commerce of ... 24 212
Salvador Treaty ... 7 402
Salvage ... 7 398
Samoan Islands ... 24 223
Sandarach ... 24 253
Sandpaper ... 24 251
Sandstones ... 23 59
Saponin ... 24 291
Sardinia, industries and commerce ... 24 300
Saskatchewan, resources of ... 24 308
Sawdust ... 24 334
Saw industry ... 24 338
Scalper ... 24 349
School, corporation ... 24 388
Schools for unskilled laborers ... 24 388
Scotland, commerce ... 24 431
manufactures ... 24 431
Scientific management ... 24 417
development ... 24 418
history ... 24 418
24 419
principles ... 24 419
results ... 24 420
status of ... 24 420
system ... 24 418
Sealing wax ... 24 479
Seaman ... 24 486
Seaports ... 13 689
Serbia, commerce and industries ... 24 580
Serbian Treaty (1881) ... 7 401
Sewing machines ... 24 627
Sheffield plate ... 25 18
Shell, its industrial uses 24 684
Shells ... 15 104
Ship ... 24 716
Shipbuilding industry and construction ... 24 725
Shipping. See **Ships, Shipping and Shipbuilding.**
Shipping of the world ... 24 733
Shipping subsidies ... 24 732
Ship stores ... 20 3
Shoe industry in the United States ... 24 739
Shoes. See **Shoes; Hides and Leather.**
Shorthand ... 24 746

General — cont'd Vol. Page

history of ... 24 749
science of ... 24 752
standardization ... 24 753
Shovels ... 13 702
Shows ... 10 720
Siam, commerce and industry ... 24 765
shipping ... 24 765
Siberia, commerce and manufactures ... 24 769
Signs and sign boards. 24 804
Silverware products ... 25 17
Silent partner ... 7 398
24 810
Silica sand ... 23 59
Siliceous crystalline rocks ... 23 59
Simplex combination ... 27 109
Size ... 25 65
Sizing ... 13 755
Slate ... 23 59
25 88
Slates ... 13 277
Sleeping cars ... 23 141
Smelting ... 7 6[illegible]9
Darbys' invention ... 13 280
Smoke nuisance ... 25 135
Smudge ... 15 104
Soap. See under **Domestic Economy — Soaps and Cosmetics.**
Soda, commercial production ... 25 220
South Africa, industrial development of ... 27 289
South Carolina Interstate and West Indian Exposition ... 25 297
South Carolina, manufactures ... 25 291
South Dakota, manufactures ... 25 299
South Sea Company ... 25 308
Spain, manufactures and commerce ... 25 326
shipping ... 25 329
Specification ... 25 371
Spermaceti ... 29 233
Spice trade ... 25 404
Sponge fishing ... 25 430
Springs ... 25 459
Stamp Act ... 25 475
Stamps, postage ... 25 475
Standards, Bureau of ... 25 480
Starch ... 25 492
preparation of ... 25 492
State control ... 25 508
Statistical method ... 25 529
Statistics ... 25 533
Steam ... 25 540
vessels ... 25 553
Stearin, oleo ... 25 86
Steel. See **Iron and Steel.**
Steel car industry ... 25 600
Stenciling ... 25 615
Stencils ... 25 615
Stockholder ... 25 660
Stock raising. See under **Agriculture — Stock-raising,** also **Domestic Animals.**
Stone cutting and dressing ... 25 684
Stoves and heating apparatus ... 25 702
Straw manufacture ... 25 720
Strawboard ... 25 723
Street cleaning ... 25 725
Strikes and lockouts ... 25 735
Sugar. See **Sugar and Sugar-making.**
Suint ... 15 105

General — cont'd Vol. Page

Supercargo ... 7 398
Suretyship ... 26 61
Surface burner ... 25 702
Sweatshop system ... 10 701
Sweden, commerce, manufactures, etc ... 26 116
Switzerland, industries. 26 146
*Swedish East India Company ... 9 705
Syndic ... 26 171
Syndicalism ... 26 171
Syndicate buyer ... 15 82
Syndicates ... 26 171
Syria, communications ... 26 188
Syrian trade routes ... 26 188
Tabulating machine, Hollerith's electric ... 5 162
Talc ... 26 221
Talking machine ... 26 225
Tallow ... 26 229
Tar ... 7 228
20 3
26 264
Tare ... 7 398
26 268
Tariff ... 26 268
administration in the United States. 26 270
Tasmania, commerce ... 26 280
Taxation ... 26 287
Taxes ... 25 512
Telegraphy ... 10 157
10 158
26 328
wireless ... 26 345
Telephone ... 26 363
Telephony ... 10 157
wireless ... 26 384
Temporary convention ... 7 401
Tender ... 7 398
Tennessee, industries ... 26 421
Terra cotta ... 26 445
Texas, commerce ... 26 462
manufacturing ... 26 462
Textiles. See **Textiles and Textile Manufacture.**
Tide predicters ... 5 162
Tides ... 26 611
Time ... 26 630
measurement of ... 26 631
Tin ... 13 275
17 42
17 44
26 638
can ... 5 506
plate ... 13 704
manufacture of. 26 640
production ... 26 639
uses ... 26 639
Tinware ... 13 704
Tinder ... 26 641
Tire ... 26 644
Tithes ... 26 647
Tobin bronze ... 4 583
Tolls, Panama Canal ... 21 238
Tonnage ... 26 687
cargo or measurement ... 26 688
deadweight ... 26 688
displacement ... 26 688
gross and net registered ... 26 688
Tools ... 26 690
Toothpick ... 26 699
Tortoise shell ... 26 714
Touter ... 15 105
Traction engine ... 26 745
Trade and Technical Press, American ... 26 753
Trade apprentice schools 24 388
Trade associations ... 26 748

General — cont'd	Vol.	Page
Trade, balance of	3	70
board of	26	748
expansion, German	7	398
mark	7	398
	26	748
office of	26	749
origin of	26	749
marks, adoption of symbols	26	749
kinds of	26	750
secondary meaning	26	750
of Canada	5	456
schools	26	754
Union, General Federation of	26	764
unionism	25	182
Germany	8	646
union movement	1	519
Trading stamps	26	764
Training schools, special	24	388
Trans-Mississippi Exposition	27	3
Transportation. See **Transportation and Communication.**		
Treasury Department	27	23
Treaty between Great Britain and Japan	7	400
Treaty port	27	34
Treaty tariffs	7	400
Treaty with Denmark	7	401
Treaties with Egypt and Ethiopia	7	401
Treaty with Great Britain	7	401
Tret	7	398
Tripoli, industries	27	75
Tropical forest products	27	87
Truck system	7	398
	27	102
Trusts	27	108
growth and control of	27	113
Tuplo gum	17	733
Turbandium bronze	4	583
Turkey, commerce	27	183
manufacturing and other industries	27	182
Turpentine	20	3
	27	206
box method	27	206
cup system	27	206
Cyrus	6	435
Tuscan braids	11	169
Typewriter	27	238
Ukraine, manufactures	27	259
Underwriting	27	276
Unearned increment	7	398
Unemployed benefits	5	476
Unemployment	27	277
Unionism	27	291
United States Commerce Court	27	551
United States Custom Court	27	551
United States, foreign commerce	27	499
immigration	27	463
imports and exports	27	501
imports and exports by grand divisions	27	505
industrial and commercial development	27	503
principal products of	7	377
Reclamation Service	27	560
Steel Corporation	5	633
	27	113
	27	563

General — cont'd	Vol.	Page
Unity system of organization	27	568
Upset price	7	398
Uruguay, commerce and manufacturing industries	27	603
pastoral industries and agriculture	27	603
treaties	7	402
Usury	27	608
Utah, manufactures	27	614
Valorization	27	652
Value	27	673
Varnishes. See **Paints and Varnishes.**		
Vault	27	701
Vegetable ivory	21	217
Vegetables, canning of	5	507
Veneer industry	17	733
Veneering	27	726
Veneers	27	726
Venezuela, commerce	27	731
manufacturing industries	27	731
treaties	7	402
Venice turpentine	15	105
Vermont, manufactures	29	20
Vessel tonnage and commerce	7	370
Victoria (Australia), commerce	28	71
industries	28	71
Virginia, commerce	28	119
manufactures	28	118
Vocational education	28	160
Voucher	7	398
Waling	15	105
War, European, its relation to world commerce	28	661
Warehouse receipt	7	391
Warehousing system	28	703
War Labor Boards	28	681
Washing machines	17	105
	28	772
Washington (State), commerce	28	784
manufactures	28	783
Waste	29	3
Watchmaking, modern	29	7
Water glass	29	20
Water mark	29	23
Water power	29	26
Waterproofing	29	75
Water stiff	13	755
Wax	29	118
Wealth	29	124
Weaving	29	136
Weighing machines	29	160
Weights. See **Weights and Measures.**		
West India trade	29	206
West Virginia, manufactures	29	211
Whalebone	29	234
Whisky	29	257
White manganese bronze	4	583
Whiting	29	279
Wicker weaving and products	29	290
Wine industry in the United States	29	393
Wine-making. See **Brewing, Distilling and Wine-making.**		
Wine production of the world	29	393
Wire industry	13	701
Wire and wire drawing	29	410
Wire glass	29	413

General — cont'd	Vol.	Page
Wire, manufacture of	13	701
	29	407
rope	29	414
Wisconsin, manufactures	29	419
Women in industry	29	458
Wood	12	144
	29	475
distillation	6	391
pipes, earliest forms of	22	108
preservative treatment of	17	734
pulp industry	21	387
screws	24	451
tar	26	265
working machinery	29	487
World's development	7	370
Wyoming, manufactures	29	585
Yukon, industries	29	675
Zylonite	29	743

Biographies

UNITED STATES

	Vol.	Page
Acker, Charles Ernest	1	93
Adams, Alvin	1	118
Ames, John	13	702
Ames, Nathan P.	1	569
Ames, Oakes	1	569
Ames, Oliver	1	570
	13	702
Angel, William G.	13	704
Archbold, John Dustin	2	165
Argand, Aimé	2	195
	16	679
Armour, Herman Ossian	2	278
Armour, J. Ogden	2	278
Armour, Philip Danforth	2	278
Ashley, William H.	2	386
Astor, William Backhouse	2	449
	12	177
Astor, John Jacob	2	448
	12	177
	16	135
Austin, Richard	8	145
Baader, Benedict Franz Xaver von	3	1
Bacon, Robert	3	25
Barker, Wharton	3	256
Bates, Martin	12	178
Batterson, James Goodwin	3	342
Beck, Frederick	19	9
Bent, Charles	3	524
Bent, Joshua	8	145
Bent, William W	3	525
Berliner, Emil	3	565
	26	226
Bliss, Cornelius Newton	4	87
Borden, Gail	4	266
Boyden, Seth	4	374
	13	704
Bridges, Robert	4	530
Brooks, Peter Chardon	4	595
Brinckerhoff, Edwin O.	8	146
Brinckerhoff, Garret B.	8	146
Brown, John	4	606
Brown, Nicholas	4	610
Burden, Henry	5	34
	15	373
Camp, Walter	5	270
Candee, Laverett	23	740
Carlisle, Charles Arthur	5	618
Carnegie, Andrew	5	632
Cassatt, Alexander Johnston	5	708
Catt, George William	6	108
Chenaworth, Richard B.	22	251
Chicaneau, Pierre	22	370

Biographies — cont'd	Vol.	Page
Chickering, Jonas	6	457
	22	57
Church, William Conant.	6	653
	7	442
Claflin, Horace Brigham	7	28
Claflin, John	7	29
Claflin, William	7	29
Clark, William Andrews	7	44
Coe, Israel	7	661
Colgate, Austen	7	250
Colgate, James Boorman	7	250
Colgate, Samuel	7	250
Colgate, William	7	250
Coolidge, Thomas Jefferson	7	633
Cooper, Peter	7	637
Cope, Thomas Pym	7	647
Corey, William Ellis	7	690
Corliss, George Henry	7	697
Corliss, William	24	103
Cowles, Alfred Abernethy	8	135
Coxe, Edward J	8	86
Crocker, Charles	8	217
Cupples, Samuel	8	304
Delessert, Benjamin	8	619
Dennison, Aaron L	29	8
Dewitt, Richard Varick	9	49
Dexter, Timothy	9	51
Disston, Henry	13	702
Dixon, Joseph	9	211
Dodd, S. C. T	27	110
Dodge, Charles Richards	9	219
Dodge, Cleveland Hoadley	9	219
Donnelly, Samuel Bratton	9	259
Douglas, William Lewis	9	281
Doulton, Sir Henry	9	282
Draper, Eben Sumner	9	312
Drew, Daniel	9	332
Duke, James Buchanan	9	390
Du Pont De Nemours, Eleuthère Irénée	9	412
Dupont De Nemours, Victor Marie	9	414
Du Pont, Henry	9	411
Durfee, William F	15	374
Eaton, Seymour	9	517
Elkins, Stephen Benton	10	250
Englis, John	10	359
Esterbrook, Richard	21	494
Evans, Oliver	10	592
	11	386
Fairbanks, Henry	10	717
Fairbanks, Thaddeus	10	717
Fargo, William George	11	19
Farrell, James A	11	48
Farwell, Charles Benjamin	11	50
Fels, Joseph	11	106
Field, Cyrus West	11	180
	23	164
Field, Marshall	11	181
Fisk, James	11	295
Flagler, Henry M	11	324
Flint, Charles Ranlett	11	357
Folger, Henry Clay, Jr.	11	415
Ford, Henry	11	465
Ford, Simeon	11	466
Fox, Sampson	25	602
Frick, Henry Clay	12	101
Fritz, John	12	113
Gary, Elbert Henry	12	301
Gates, Philetus W	18	60
Gayley, James	12	348
Gesner, Abraham	12	626
	21	683
Gibbs, James Edward Allen	12	642

Biographies — cont'd	Vol.	Page
Goodyear, Charles	13	59
	21	388
Gould, George Jay	13	83
Gould, Jay	13	83
Grace, William Russell	13	102
Graves, Richard	16	680
Gribbel, John C	13	467
Griscom, Clement Acton	13	481
Griswold John Augustus	13	482
Groseilliers, Médard Chouart	13	487
Hall, John M	13	642
Hammond, George H	18	488
Harmon, Daniel Williams	13	712
Harriman, Edward Henry	13	723
Harris, Townsend	13	725
Hassall, William	15	374
Hazard, Rowland Gibson	14	23
Heinisch, R	13	704
Hersel, William	19	684
Hewitt, Abram Stevens	14	161
Hoe, Richard March	14	308
Hoe, Robert	14	308
Hone, Philip	14	352
Hopkins, Samuel	21	382
Howe, Elias	14	455
Howe, Elias, Jr	24	628
Howell, John B	28	233
Hungerford, John	7	661
Hunt, Walter	24	627
Ingalls, Melville Ezra	15	127
Jackson, Patrick Tracy	15	580
Jeffery, Edward Turner	16	7
Jenckes, or Jenks, Joseph	16	12
Johnson, Alba Boardman	16	167
Joline, Adrian Hoffman	16	192
Jones, Amanda Theodosia	16	195
Kemble, Gouverneur	16	348
Kennedy, Artemas	8	145
Kennedy, Jason	8	145
Kennerley, Mitchell	16	357
Kilbourne, E. E	26	475
Kohlsaat, Herman Henry	16	509
Kurtz, William	7	315
Laurens, Henry	17	109
Lawrence, Abbott	17	145
Lawrence, Amos	17	145
Leishman, John G. A	17	271
Levy, Hayman	16	135
Littell, Eliakim	17	520
Longworth, Nicholas	17	648
Loree, Leonor Fresnel	17	660
Lowell, Francis Cabot	17	700
	26	468
Lunt, Orrington	17	748
McCoy, Joseph G	18	30
McCreery, James	18	32
McKay, Gordon	18	63
Mappa, Adam Gerard	18	261
Metcalf, William	18	711
Miller, Frank Augustus	19	118
Moffett, James G	7	661
Mond, Ludwig	19	343
Moore, James Hobart	19	431
Moore, William Henry	19	434
Morgenthau, Henry	19	457
Munn, Orson Desaix	19	594
Murphy, Franklin	19	608
Nicholson, William	13	703
Nicholson, William T	13	703
North, Simon Newton Dexter	20	410
Ogden, Robert Curtis	20	605
Ogden, William Butler	20	605
Orton, Edward. Jr	21	14
Payne, Oliver Hazard	21	434
Peabody, George	21	438

Biographies — cont'd	Vol.	Page
Peal, Samuel	23	739
Pearson, Theodore	8	145
Perit, Pelatiah	21	597
Perkins, Thomas Handasyd	21	600
Phelps, Anson Greene	7	661
	21	718
Phelps, Oliver	21	719
Phillips, Thomas W	21	764
Phillips, Wiliam	21	765
Phipps, Henry	21	782
Pingree, Hazen Senter	22	101
Pitman, Benn	22	121
Pope, Albert Augustus	22	356
Poterat, Edme	22	370
Powelson, Wilfred Van Nest	22	477
Pratt, Charles	22	511
Pratt, Enoch	22	512
Proudfit, David Law	22	695
Ream, Norman Bruce	23	259
Remington, E	27	238
Remington, Philo	23	365
Revell, Fleming Hewitt	23	442
Rice, William Marsh	23	486
Richards, Charles Brinckerhoff	23	491
Richmond, Dean	23	499
Riker, Andrew L	23	523
Rimmel, Eugene	21	579
Robins, Thomas	23	578
Rockefeller, John Davison	23	597
	23	590
Rockefeller, John Davison, Jr	23	598
Rockefeller, William	23	598
Rockefeller, William Goodsell	23	598
Rogers, Henry Huttlestone	23	627
Rogers, Jacob S	23	628
Rosenwald, Julius	23	698
Rowland, Thomas	13	702
Ryan, Thomas Fortune	24	71
Sage, Henry William	24	107
Sage, Russell	24	107
Salomon, Haym	24	196
Sawyer, Sylvanus	24	339
Schieffelin, Bradhurst	24	369
Schoen, C. T	25	602
Schwab, Charles M	24	409
Scranton, George Whitefield	24	448
Sellers, William	18	60
	24	544
Sheffield, Joseph Earle	24	677
Singer, Isaac Merritt	24	628
	25	34
Slater, Samuel	18	59
	25	84
Smith, Thomas	22	109
Solvay, Ernest	25	249
Spaulding, Rolland Harty	25	364
Spreckels, Claus	25	450
Spreckles, Rudolph	25	450
Steinway, Henry Engelhard	25	612
Stern, Louis	25	630
Stewart, Alexander Turney	25	642
Strong, William L	25	740
Sutherland, Howard	26	103
Swift, Gustavus Franklin	18	488
	26	128
Tabor, Horace Austin Warner	26	200
Tappan, Arthur	26	204
Tappan, Lewis	26	264
Thomas, Seth	26	574

Biographies — cont'd	Vol.	Page
Tiffany, Charles Lewis..	26	620
Torrens, William Erskine	26	708
Touro, Judah.....	26	721
Towne, Henry Robinson	26	726
Train, George Francis..	26	765
Treadwell, Ephraim....	8	146
Trenholm, George A....	27	42
Wallace, William.....	28	238
Walters, William Thompson	28	249
Wanamaker, John.....	28	256
Washburn, Israel.....	28	771
Waterman, Lewis Edson	21	493
Whitney, Asa.....	29	283
Whitney, Eli.....	29	283
Whitney, William Collins	29	284
Whittemore, Amos.....	29	285
Widener, Peter A. Brown	29	295
Wilber, William.....	8	86
Willing, Thomas.....	29	348
Wilson, Allen Benjamin	24	628
	29	356
Wilson, James.....	29	359
Wilson, John.....	18	490
Wilson, William.....	18	490
Wiman, Erastus.....	29	371
Winchester, Charles M..	29	372
Winslow, Isaac C.....	12	706
Winslow, Sidney W....	24	740
Woolworth, Frank W..	29	508
Young, George Ulysses.	29	650
Ziegler, William.....	29	708
OTHER COUNTRIES		
Allan, Sir Hugh.....	1	409
Alström, Jonas.....	1	448
Appert, François.....	2	83
Appleton, Nathan.....	2	89
Aspdin, Joseph	22	398

Biographies — cont'd	Vol.	Page
Ballantyne, Charles Colquhoun	3	97
Bass, Michael Thomas..	3	315
Bates, Francis.....	12	178
Baumgartner, Andreas von	3	351
Bessemer, Sir Henry....	3	587
	13	700
Bœttcher, Jean Frederick	4	151
Boettiger, Jean Frederick	4	151
Booth, John Rudolphus.	4	252
Broadwood, John	4	569
Brockhaus, Friedrich Arnold	4	571
Brown, Sir William....	4	612
Chippendale, Thomas...	6	563
Chouteau, Auguste.....	6	595
	12	177
Chouteau, Pierre.....	6	595
	12	177
Chouteau, Pierre, Jr....	6	595
	12	178
Clerk-Maxwell, James...	7	316
Cotta, Johann Friedrich	8	58
Dale, David.....	8	414
Demidoff, Nikolai Nikitich	8	638
Demidov, Prokop.....	8	638
Didot, Firmin.....	9	93
Didot, François Ambroise	9	93
Didot, Henri.....	9	93
Donatus, Ælius.....	9	256
Durand, Peter.....	5	506
Eaton, Timothy.....	9	518
Exner, Wilhelm Franz..	10	639
Eyde, Samuel.....	10	676
Faber, Johann Lothar von	10	691
Firth, Mark.....	11	262
Fleischmann, Wilhelm..	11	344

Biographies — cont'd	Vol.	Page
Gabelsberger, Franz Xaver	12	214
Gillott, Joseph.....	12	656
Gutenberg, Johannes...	13	579
Hudde, Andreas.....	14	467
Jejeebhoy, Sir Jamsetjee	16	10
Krupp, Friedrich.....	16	548
Krupp, Friedrich Alfred	16	548
Lee, William.....	17	226
Lipton, Sir Thomas Johnstone	17	471
Lodowyk van Berghem.	9	61
McLoughlin, John.....	18	80
Marinoni, Hippolyte....	18	291
Mason, Sir Josiah.....	18	382
Mige, Hypolite.....	8	87
Minton, Thomas.....	19	214
Morris, Sir Daniel.....	19	474
Moxon, Edward.....	19	542
Murray, John.....	19	611
Nobel, Alfred Bernard..	20	382
Paterson, William.....	13	243
Pellatt, Sir Henry Mill.	21	486
Rhondda, David Alfred Thomas, Baron.....	23	477
Robinson, Sir Joseph Benjamin	23	582
Rylands, John.....	24	74
Salt, Sir Titus.....	24	197
Schoeffer, Peter.....	24	384
Shorthouse, Joseph Henry	24	754
Tate, Henry	26	282
Taylor, Frederick Winslow	24	418
Thellusson, Peter.....	26	506
Watt, James.....	10	35
	29	111
Wedgwood, Josiah	5	67
	29	154
Young, James.....	21	683
	29	650

COTTON AND COTTON PRODUCTS

General	Vol.	Page
Abassi cotton.....	8	73
Afif Asail cotton.....	8	73
Alabama argillacea.....	8	76
Alextia xylina.....	8	76
Allen cotton.....	8	69
Arkwright's "Water Frame"	8	79
	14	288
Ashmouni cotton.....	8	73
Barley	8	61
middling	8	61
Batiste	3	389
Beater	15	99
Bolls	8	61
Boll worm.....	8	76
Bolly cotton.....	8	66
Botany of cotton.....	8	60
Botany	8	60
Buckram	4	669
Calico printing.....	5	195

General — cont'd	Vol.	Page
Cambric	5	248
Canvas	5	539
Chintz	6	561
Cloth manufacture.....	14	268
Commercial grading....	8	61
Cop	15	100
Cord	15	100
Cording	15	100
Corduroy	7	690
	17	192
Cotton	8	60
	11	24
	18	750
	22	180
	26	470
area	8	62
climate	8	63
frost	8	63
geographical divisions	8	62

General — cont'd	Vol.	Page
largest	8	62
limits of.....	8	62
rainfall	8	63
temperature	8	63
bedding up.....	8	64
belt	8	63
blooms	8	66
bolls	8	66
botany of.....	8	60
carding machinery..	8	79
Chinese methods of cultivation	8	75
chopping out.....	8	65
classifications of.....	8	60
cluster types.....	8	61
combing machinery..	8	79
consumption in textile mills.....	26	471
cost of production..	8	67

General — cont'd	Vol.	Page
crops of States	8	72
cultivation	8	64
cultivation—crop rotation	8	64
cultivation in other countries	8	75
cultivation in the United States	8	62
date of planting	8	65
drawing	8	79
exchanges	8	69
factory, first in United States	10	700
famine	8	76
fertilizing	8	65
fibre, consumption in United States	8	71
Futures' Act	8	70
ginning	8	67
goods, exports from United States	8	83
Imported into United States	8	84
in square yards	26	471
grades	8	69
growing (share system)	8	64
growing industry	1	261
hulls	8	89
improved spinning	26	471
industry in Latin America	17	47
insects	8	76
land tenure	8	64
large corporations	26	471
long staple	8	61
long staple Sea Island	8	69
long staple upland	8	69
	8	71
machinery	8	77
manufactures in the United States	8	80
manufacturing in United States—statistics	8	81
marketing	8	68
mercerizing	15	103
mill, first American	15	85
	25	84
product value of	26	471
Canadian	5	447
picking	8	66
product, England's	26	477
production by States	8	72
production of the world	8	84
production statistics	8	68
production, world statistics	8	84
roving	8	79
Sea Island	8	61
	8	70
	8	232
seed, statistics	8	89
seed oil, commercial extension	8	85
seed oil, growth of industry	8	87
seed oil, history of	8	85
seed oil, industry	8	85
seed oil, market	8	86
seed-oil mills, statistics	8	88
seed oil, new machines	8	86
seed oil, new uses	8	89
seed oil, present process of extracting	8	88

General — cont'd	Vol.	Page
seed oil, value of product	8	88
seed products	8	89
seed selection	8	65
short staple upland	8	69
soil	8	63
spinning frame	8	79
States	8	62
statistical summary	8	72
testing machinery	8	80
textiles	26	470
textiles, fine	26	472
trade of Latin America with the United States	17	53
twisting	8	79
values	26	471
weaving looms	8	80
worm	8	76
yield	8	66
Cotton in:		
Argentina	17	51
Bolivia	17	51
Brazil	8	75
	17	52
Chile	17	51
China	8	75
Colombia	17	49
Costa Rica	17	49
Cuba	17	48
Dominican Republic	17	49
Ecuador	17	50
Egypt	8	73
France	11	706
Guatemala	17	47
Haiti	17	69
Honduras	17	47
India	8	61
	8	73
Latin America	17	47
Mexico	8	75
	17	47
	18	750
Nicaragua	17	48
Panama	17	48
Paraguay	17	52
Persia	8	76
Peru	8	75
	17	50
Russia	8	74
Salvador	17	48
Turkey	8	76
Uruguay	17	52
Venezuela	17	49
Virgin Islands	17	49
Cretonne	8	188
Crompton's "Mule"	8	79
	14	288
Damask	8	427
Dash-wheel	15	100
Depressaria	8	76
Dhollerars cotton	8	73
Diaper	9	70
Dimity	9	123
Dornick	9	267
Dornock	9	267
Dowlas	9	287
Draw	15	101
Dysdercus suturellus	8	76
East India, cotton cultivation in	8	72
cotton production	8	73
Egypt, cotton cultivation in	8	73
cotton statistics for	8	74
Egyptian cotton	8	61
	8	73
Extra long staple	8	61
Fair cotton	8	61
Fine	26	472

General — cont'd	Vol.	Page
Flannel	11	334
Full grades	8	61
Gauze	12	344
Gingham	12	659
Good middling	8	61
Good ordinary	8	61
Gossypium	8	60
arboreum	8	61
babadense	8	61
herbaceum	8	61
peruviarum	8	61
Gray sour	15	102
Hargreaves, James, spinning jenney	8	79
	14	288
Heliothis armigera	8	77
Hinghung hat cotton	8	73
Hulls	8	89
India cotton	8	61
	8	73
Joannovich cotton	8	73
Largest cotton manufacturing city	26	471
Latin America, cotton industry	17	47
cotton trade with the United States	17	53
Linters	8	71
	8	81
	8	89
Liverpool classification	8	61
Long staple	8	61
upland	8	71
Low middling	8	61
Medium staple	8	61
Mercerized cotton	15	283
	18	656
Mercerizing and mercerized cotton	18	656
Middling	8	61
fair	8	61
Mississippi delta	8	64
Mètafil cotton	8	73
Mule machine	19	553
Mule spinner	8	79
Muslins	19	653
Nankeen	19	688
Nanking cloth	19	688
New York Cotton Exchange classifications	8	61
Noctuid moth	8	76
	8	77
Nubari cotton	8	73
Nurma cotton	8	61
Oomras cotton	8	73
Ordinary	8	61
Peeler cotton	8	69
Ring frame	8	79
Ring spinner	8	79
Sailcloth	24	112
Sakellaridio cotton	8	73
Sea Island cotton	8	61
	8	70
	8	232
Short staple	8	61
Spinning	25	414
jenney	8	79
mule	8	79
Squares	8	61
Strict low middling	8	61
Strictly	8	61
Thread	26	592
Tennevellys cotton	8	73
Union Oil Company	8	86
Upland cotton	8	61
	8	232
Whitneys' cotton gin	14	288
Wild cotton	8	61
World's cotton mills	8	82
See also **Textiles** and **Textile Manufacture.**		

CURRENCY AND MONETARY SYSTEMS

General	Vol.	Page
Abassi	7	224
Assignats	11	747
Balboa	7	224
Bani	7	224
Bank currency	19	348
Bank of England, notes of	19	353
of France, notes of	19	353
Bawbee	3	357
Bolivar	7	224
Boliviano	7	223
Bullion	5	16
	7	395
Canadian coinage	5	471
currency	5	471
currency, standard of	5	471
Cent	6	198
Centavo	6	199
	7	224
Bolivian	7	223
Bulgarian	7	223
Centesimo	7	224
Certificates, gold	19	353
silver	19	353
Chai	7	224
Chinese paper money	19	353
Coin	6	249
	7	219
	8	311
denomination of	5	471
Coinage	7	219
	7	221
equalizing the	17	92
first actual	9	236
Coins, American colonial	20	496
Argentine	7	223
Austria-Hungarian	7	223
Belgian	7	223
Bolivian	7	223
Brazilian	7	223
Bulgarian	7	223
Canadian	7	223
Chilean	7	223
Chinese	7	224
Colombian	7	224
Costa Rican	7	224
Cuban	7	224
Danish	7	224
Dominican Republic	7	224
Ecuadorean	7	224
Egyptian	7	224
Finland	7	224
French	7	224
German	7	224
Great Britain	7	224
Greece	7	224
Greek	20	494
Guatemalan	7	224
Haitian	7	224
Hawaiian	7	224
Honduran	7	224
Indian	7	224
Italian	7	224
Japanese	7	224
Liberian	7	224
Mexican	7	224
Netherlands	7	224
Newfoundland	7	224

General — cont'd	Vol.	Page
Nicaraguan	7	224
Norwegian	7	224
Oriental	20	496
Panaman	7	224
Paraguayan	7	224
Persian	7	224
Peruvian	7	224
Philippine Islands	7	224
Portuguese	7	224
Roman	20	494
Rumanian	7	224
Russian	7	224
Salvadorean	7	224
Serbian	7	224
Siamese	7	224
Spanish	7	224
Swedish	7	224
Swiss	7	224
Turkish	7	224
Uruguayan	7	224
Venezuelan	7	224
foreign, American equivalent of	7	223
subsidiary	8	311
Colon	7	224
pieces	7	224
Condor	7	224
Confederate paper money	19	353
Continental money	19	351
Copeck	7	224
	7	647
Cordoba	7	224
Counterfeiting	8	102
Credit currency	19	348
Crown	7	223
	7	224
	8	247
Currency	7	396
	8	311
bank	8	312
coinage and legal tender	5	470
	5	471
deposit	8	313
effect of the war on	28	668
government	8	312
government notes, convertible	8	312
metallic	8	311
notes	11	214
paper	8	312
South American	19	353
Cyprea moneta	24	686
Denarius	9	132
Dime	9	122
Dinar	7	224
	9	124
Doit	9	233
Dollar	7	223
	9	236
Dos	7	224
Double eagle	9	273
Doubloon	9	276
Drachma	7	224
Ducat	7	223
	9	376
Ducatoon	9	376
Ducastone	9	376

General — cont'd	Vol.	Page
Eagle	9	474
Escudo	7	224
Exchange medium of	19	346
Farthing	7	224
Fiat money	11	165
Five cent piece	11	304
Florin	7	223
	7	224
Franc	7	223
	7	224
	11	572
German notes	19	353
Gold certificates	19	353
coin	19	348
coinage in the United States	13	13
coins, abrasion of	13	13
crown	7	224
Gourde	7	224
Government notes	19	348
convertible	8	312
Greenbacks	13	427
	19	353
Groat	13	483
Half Argentine	7	223
crown	13	636
dime	11	304
dollar	13	636
eagle	13	636
Halifax currency	5	470
Hellers	7	223
Italian notes	19	353
Japan, coinage system in	15	700
Joachimsthaler	9	236
Juang	7	224
Kran	7	224
Kreutzer	7	223
Kuping tael	15	709
Legal tender	17	234
Lev	7	223
Leu	7	224
Li	17	343
Liang	7	224
Lindenmuller cents	26	669
Lira	7	224
	17	502
Louis d'or	17	678
Markka	7	224
Mark	7	224
	18	299
Medium of exchange	19	346
Milreis	7	223
	19	132
Mint	7	219
Monetary systems of:		
Argentina	2	218
Australia	2	602
Austria	2	623
Bolivia	4	189
Brazil	4	439
Canada	5	470
Chile	6	508
China	6	525
Colombia	7	282
Costa Rica	8	43
Cuba	8	286
Denmark	8	681

General — cont'd	Vol.	Page
Dominican Republic	9	245
Ecuador	9	573
Egypt	10	6
France	11	704
Germany	12	599
Great Britain	13	243
Guatemala	13	519
Guiana	13	529
Hati	13	627
Hawaii	14	2
India	15	8
Ireland	15	313
Italy	15	545
Japan	15	700
	15	744
Mexico	18	754
Netherlands	20	90
New Zealand	20	251
Nicaragua	20	304
Norway	20	438
Nova Scotia	20	464
Panama	21	231
Paraguay	21	280
Peru	21	647
Porto Rico	22	402
Portugal	22	412
Russia	24	48
Serbia	24	581
Spain	25	329
Sweden	26	117
Switzerland	26	149
Turkey	27	185
Uruguay	27	604
United States	19	349
	27	342
	27	374
	27	397
	27	423
Venezuela	27	731
Money	19	345
Continental	19	351
Money, paper	19	350
Confederate paper	19	353
Continental paper	19	351
foreign paper	19	353

General — cont'd	Vol.	Page
Monometallism	19	365
National bank notes	15	702
New England shilling	20	121
Nickel	11	304
Numismatics	20	494
One-yen convertible notes	15	710
silver coin	15	709
Ore	7	224
Paper currency	8	312
	28	669
Paper money	19	348
foreign	19	353
adjustment of	15	708
inconvertible	15	702
Japanese	15	701
overissue of	15	701
redemption of	15	704
Para	7	224
	21	271
Penny	7	223
	21	539
Peseta	7	224
	21	653
Peso	7	223
	7	224
	21	653
Pfennig	7	224
	21	701
Piaster	7	224
Pice	22	65
Postal currency	19	353
Pound sterling	7	224
Provincial paper money	19	351
Quarter dollar	23	63
Rap	23	215
Real piece	7	224
Reserve paper money	15	701
Rin	7	224
Rix dollar	23	556
Rouble	23	749
Ruble	7	224
	23	749
Rupee	7	224
	23	776
Salung	7	224

General — cont'd	Vol.	Page
Sataug	7	224
Scudo	24	457
Sequin	24	576
Sen	7	224
Shekel	24	679
Shilling	24	710
Shin plaster	19	353
	24	714
Silver	19	253
certificates	19	353
coin	19	348
Sol	7	224
Sovereign	5	471
	7	224
Special Colonial coinage	5	470
Standard coins	8	311
Standards of value	19	345
Stiver	25	655
Stotinki	7	223
Subsidiary coins	5	472
Sucre	7	224
Tael	7	224
Thaler	7	224
Tical	7	224
Token coins	5	472
money	26	669
Tolerance	7	398
Toman	7	224
	26	680
Tomaun	26	680
Trade dollar	26	748
Trade tokens, first coinage of	26	669
United States, monetary system of	19	349
Value, standards of	19	345
Wampum	24	685
World War, effect on currency	28	668
Yen	7	224
	29	633
York shilling	5	470
See also **Banking and Finance; Economics.**		

CUSTOMS AND SOCIAL LIFE

General	Vol.	Page
Abbot of joy	1	16
Ablution	1	43
Abjuration	1	42
Abracadabra	1	46
Acclamation	1	75
Accolade	1	76
A Chula	1	91
Adoption	1	151
Adoration	1	151
Album	1	340
Almack's	1	429
Amulets	1	594
Anointing	2	5
Apis	2	58
Archestratus	3	212

General — cont'd	Vol.	Page
Assemblages	2	415
Assembly, right of	2	420
Ass, Feast of the	1	16
	2	409
Asylum	2	484
Athenæus	3	212
Baboo	3	6
Babu	3	6
Bacchanalia	3	10
Bacchanalia Dionysia	3	11
Bacchante	3	10
Bacchus, feasts consecrated to	3	11
Bach Festival	3	15
Badge	3	34

General — cont'd	Vol.	Page
Bag-wig	13	623
Baksheesh	3	63
Bakshish	3	63
Bank holidays	3	147
Banns	3	210
Banneret	3	210
Banquets	3	210
Baptism for the dead	3	219
Baptism of the dead	3	219
Barbarian	3	231
Barbecue	3	234
Barber	3	235
Bath	3	330
cold	3	331
hot	3	332

General — cont'd	Vol.	Page
hot-air	3	332
sea	3	333
tepid	3	331
Turkish	3	332
warm	3	332
Bazar, or bazaar	3	369
Beacon	3	373
Beard	3	380
Beating the bounds	3	387
Beef eaters	3	428
Beefsteak clubs	3	428
Befana	3	442
Belomancy	3	494
Betrothal	3	594
Betrothment	3	594
Bibliomancy	3	677
Bird day	3	727
Black art	18	115
Blood brotherhood	4	110
Blood feud	4	110
Blood-money	4	110
Bluegowns	4	130
Blue-stocking	4	127
Boy bishop	4	370
Boxing day	4	370
Bride and bridegroom	4	494
Bunco	5	23
Buncombe	5	23
Bunkum	5	23
Buphonia	5	30
Burial	5	43
Burying places	5	71
Bushido	5	73
Cachou	5	129
Café	5	142
Calumet	5	236
Campeggio	3	214
Canard	5	487
Can-can	5	490
Cannibalism	5	502
as a means of subsistence	5	502
as a ritualistic practice	5	502
as magic and medicine	5	503
as manifestation of affection	5	502
Canopi	5	525
Canopic vases	5	525
Carajuru	6	437
Cards	5	604
Carneia	5	639
Carnival	5	640
Carte blanche	5	678
Carte de visite	5	678
Casino	5	704
Caste	6	1
Catacombs	6	30
Biblical cycle	6	33
Constantine Period	6	33
gold glasses	6	35
inscriptions	6	35
Damasne	6	36
mosaics	6	35
origin	6	32
paintings	6	33
period of decline	6	33
rediscovery and research	6	33
Roman	6	31
sculpture	6	35
statuary	6	35
Catafalque	6	36
Catoptromancy	6	107
Cavaliere servente	6	671
Celebacy	6	169
Cemetery	6	190
Cenotaph	6	192
Champion	6	271
Chambre Ardente	6	266
Champ Clos	6	269
Changeling	6	288
Chap-books	6	294
Chaperon	6	296
Charade	6	302
Charm	6	334
Charnel-house	6	335
Chevalier	6	430
Chewing gum	6	433
Chibuk	6	437
Chibouque	6	437
Chibuk	6	437
Chignon	6	459
	13	624
Childermas Day	6	470
Chiromancy	6	566
Chiropody	6	567
Chiton	6	570
Chirosophy	6	569
Chivalry	6	572
Chop-sticks	6	588
Chromatrope, or chromotrope	6	631
Church-ale	6	655
Churching of women	6	664
Churl	6	664
Cicerone	6	670
Cicisbeo	6	671
Cinque pace	6	688
Circle, magic	6	692
Circumcision	6	694
Circus	6	696
Civic crown	6	725
Clairvoyance	7	30
Clan	7	31
Club	7	136
Codex	7	197
Coffee-house	7	211
Coffin	7	213
Commemoration ode	7	364
Commencement	7	365
Community Christmas tree	7	419
Community drama	7	419
Community music	7	420
Concubinage	7	475
Conference	7	494
Conjuring	7	523
Conscience money	7	537
Consort	7	550
Contra-dance	8	106
Conversation	7	610
Co-operation	7	639
Coranach, or coronach	7	678
Coscinomancy	8	31
Coskinomancy	8	31
Cotillon	8	57
Country dance	8	106
Court ceremonial	8	123
Court of honor	8	125
Court of love	8	125
Courtesy title	8	125
Couvade	8	128
Cremation	8	177
Criticism	8	212
Cucking stool	9	380
Cup, divination by	8	304
Curfew	8	306
Cutty stool	8	345
Cynosarges	13	417
Dance	8	430
of death	8	447
Dancing	8	447
terms	8	449
Delphinia	8	628
Device	9	37
Diamond wedding	9	68
Dick's Coffee House	9	85
Dies Fasti et Nefasti	9	99
Dirt-eating	12	472
Divining rod	9	204
Doll	9	235
Ducking stool	9	380
Dude	9	382
Duel and dueling	9	385
Dutch courage	9	434
Egg dance	9	728
Eleusinian mysteries	10	224
Eleutheria	10	225
Embalming	10	273
Empalement	10	299
Endogamy	10	323
	18	313
Epitaph	10	435
Epithalamia	13	418
Etiquette	10	555
Exogamy	18	313
Fairs and shows	10	720
Fandango	11	9
Fashion	11	50
Fasting	11	52
Feast	11	75
Feet washing	11	95
Feretory	11	122
Festival	11	153
Festivals, American Indian	11	153
Christian	11	156
Greek	11	154
Jewish	11	155
miscellaneous	11	155
Roman	11	154
Feud	11	159
Feu de Joie	11	159
Fire-walking	11	248
Fire-worshipers	11	248
First-born	11	258
First-footing	11	262
Flag day	11	309
Fleet marriages	11	341
Folkmoot	11	417
Fools, Feast of	11	454
Fortune-telling	11	523
Forum	11	524
Foyer	11	568
Fraternal societies in America	12	23
Fraternities	12	24
Freeman, or freedman	12	51
Funeral rites	12	163
Geisha	12	360
Genuflection	12	404
Geophabism	12	472
Geophagy	12	472
Ghost dance	12	634
Greek social life	13	416
Gymnasia	13	417
Gynaiconitis	13	417
Gyromancy	13	596
Hair-dressing	13	622
Hair dye	13	624
Hakim	13	629
Hall of Fame	13	644
Hall of Odin	13	645
Hallowe'en	13	649
Hallow-Even	13	649
Harakiri	13	686
Hareem	13	707
Harem	13	707
Harlequin	13	710
Hatchment	13	754
Hobson's choice	14	306
Holiday	14	316
Hoodoos	18	376
Incantation	14	735
Jester	16	36
Kermess	16	379
Kirmess	16	379
Kiss	16	462
Kit-Cat Club	16	463
Lammas Day	16	677
Leeds Musical Festival	17	229

General — cont'd	Vol.	Page
Legend	17	241
Levee	17	327
Levirate marriage	17	329
Liberty cap	22	23
Lie	17	404
Lord Mayor's Day	17	657
Lupercalia	17	748
Magic	18	115
Magic circle	6	692
Marriage	18	311
by capture	18	312
by purchase	18	312
ceremony	18	312
child	18	312
choice in	18	312
fleet	11	341
function of	18	311
origin of	18	311
Mascots	18	376
Mask	18	378
Masquerade	18	392
Masques	18	393
Matachin, or matachine	18	421
May Day	18	461
Mazurka	18	472
Medicine dance	18	583
Megalensia	18	592
Megalesia	18	592
Michaelmas	19	13
Mime	19	143
Misrule, Lord of	19	227
Moderation	13	417
Monogamy	18	312
Month's mind	19	409
Moorish dance	19	479
Morris dance	19	479
Mother's Day	19	512
Mourning	19	533
Mummy	19	561
Nautch	19	782
Necromancy	20	87
Nepotism	20	78
Ophiolatry	24	598
Orgia	3	11
Outlawry	21	55
Pall	21	207
Passing-bell	21	369
Patches	21	379
Pavane	21	427
Peace be with you	24	176
Peace, pipe of	5	236
Philtre	21	782
Phrygian cap	22	23
Pit and gallows	22	119
Planchette	22	150
Podiatry	22	270
Polonaise	22	325
Polyandry	18	312
	22	326
Polygamy	18	311
	22	330
Polygyny	18	311
Posadas	22	419
Posting	22	437
Potlatch	22	448
Precedence	22	520
order of, in England	22	520
in United States	22	520
Procession	22	628
Proverb	22	704
Punchinello	23	16
Puppet shows	23	24
Pyrrhic dance	23	46
Quadrille	23	54
Reel	23	297
Regatta	23	318
Riddle	23	510
Rose Festival	23	694
Salaam	24	176
Salmon dance	24	195
Salutation	24	200
Salutes with cannon	24	210
Saraband	24	293
Sarcophagus	24	297
Saturnalia	24	316
Scalping	24	349
Scape-goat	24	353
Sceptre	24	360
Seal	24	479
Second sight	24	514
Seppuku	13	686
Serenade	24	591
Serpent charming	24	598
Serpent worship	24	598
Seven	24	608
Shamanism	24	655
Shamrock	24	656
Shew bread	24	708
Shibboleth	24	708
Shillelagh	24	710
Shinto	24	715
Sibyl	24	776
Sir	25	45
Sistrum	25	47
Skating	25	65
Sling	25	98
Snake dance	25	144
Snake stone	25	144
Snuff	25	153
Social and university settlements	25	189
Social centres	25	158
Social science	25	187
Social service	25	187
Stone worship	25	687
Student life and customs	25	750
Sun dance	26	26
Superstitions	26	41
Africa	26	41
American Indian	26	41
Arabia	26	41
Arctic Regions	26	41
Australia	26	41
Bohemia	26	41
Brazil	26	42
China	26	42
Cuba	26	42
Egypt	26	42
England	26	42
Fiji Islands	26	42
France	26	42
Germany	26	43
Greece	26	43
Hawaii	26	43
Iceland	26	43
India	26	43
Ireland	26	43
Isle of Man	26	43
Italy	26	43
Japan	26	44
Java	26	44
Mexico	26	44
Norway	26	44
Persia	26	44
Peru	26	44
Philippine Islands	26	44
Poland	26	44
Romany	26	44
Rumania	26	44
Russia	26	44
Samoa	26	44
Scotland	26	44
Solomon Islands	26	45
Spain	26	45
Sweden	26	45
Switzerland	26	45
Turkey	26	45
United States	26	45
Suttee	26	103
Sword dance	26	154
Table turning	26	199
Tarantella	26	265
Tattooing	26	283
Tent	26	436
Thanksgiving Day	26	488
Toast	26	658
Toothpick	26	699
Totem pole	26	716
Tournament	26	720
Tradition	26	764
Trinity Sunday	27	69
Trophy	27	87
Truce of God	27	102
Tumulus	27	144
Turkish bath	27	199
Twelfth Day	27	218
Universities, social life	25	525
Urn burial	27	597
Vampire	27	662
Vendetta	27	726
Visiting card	28	141
Voudoo, or voodoo	28	193
Waits	28	215
Wake	28	216
Walking stick	28	232
Walpurgis night	28	246
Waltz	28	252
Wampum	28	252
War dance	28	677
War paint	28	682
War path	28	682
Wave offering	29	116
Wedding anniversaries	29	153
Wedding, china	29	153
cotton	29	153
crystal	29	153
diamond	29	153
golden	29	153
leather	29	153
paper	29	153
silk and fine linen	29	153
silver	29	153
tin	29	153
wooden	29	153
woolen	29	153
Weeping cross	29	159
Werwolf, or Werewolf	29	195
What-cheer	29	241
White feather	29	271
White hats	29	271
White Lady	29	271
Wig	29	297
powdering	13	623
Wigwam	29	300
Witchcraft	29	430
Witch Hill	29	430
Witenagemot, or Witenagemote	29	432
Wodan	29	435
Woden	29	435
Wood nymph	29	486
Wuotan	29	465
Zoolatry	29	728

See also **Amusements, Games and Sports; Mythology; Sociology.**

DAIRYING AND DAIRY PRODUCTS

General	Vol.	Page
Aerator	1	179
Arnotto	2	320
Babcock test	8	406
Butter	1	157
	5	84
	8	407
and cheese factories in Canada	5	446
color	5	87
fat	8	406
manufacture of, in Italy	15	541
milk	5	90
	8	408
process	5	86
	8	408
renovated	5	86
	8	408
score card	8	408
sour cream	8	408
sweet cream	8	408
worker	5	87
Caesin	5	698
Cheese	1	157
	6	373
	8	409
and cheese making	6	373
American	8	409
Camembert	8	410
Cheddar	8	409
	13	268
Cottage	8	410
Cream	8	410
Gorgonzola	8	410
manufacture of, in Italy	15	541
Neufchatel	8	410
Roquefort	8	410
score card	8	410
Stilton	8	410
	13	269
Churn	6	664
Colostrum	7	332
	8	406
Condensed milk	7	477
	8	411
Cream	8	408
ripening process	8	408
Dairy cattle	6	111
Ayrshires	6	111
Dexter	6	112
Dutch Betted	6	112
French-Canadian	6	112
Guernseys	6	111
Holstein-Friesian	6	111
	25	659
Jerseys	6	111
Kerry	6	112

General — cont'd	Vol.	Page
Dairy chemistry	1	246
Dairy cows, ration for	17	529
Dairy industry, American	8	397
Canadian	5	430
Dairy products	8	405
imports and exports	8	398
	8	405
Dairy stables	8	402
Dairy States	11	28
Dairy suggestions, twenty	8	402
Dual purpose cattle	6	112
Evaporated milk	7	477
Farm animals, nutrition of	20	510
Fermented milk drinks	8	410
Fermilac	8	404
Ghee	12	632
Ghi	12	632
Goats, milk	12	741
characteristics of	12	741
quantity of milk given	12	741
Ice cream	8	410
Kumiss	8	404
Lactose	8	400
Malted milk	8	411
Michigan, dairying	19	21
Milk	1	158
	8	401
	8	403
	8	405
	19	102
adulterants of	19	107
adulterants, detection of	19	106
artificial coloring of	19	107
Babcock test	8	406
bacteria in	19	105
Bulgarian	8	404
certified	8	407
chemical preservatives	19	106
classes of	8	407
commissions, medical	8	404
condensed	7	477
	8	411
condensed, chemical analysis of	7	478
condensed, composition of	8	411
condensed, food value of	7	478
cows'	8	402
	19	103
cows, breeds	19	103
drinks, fermented	8	410

General — cont'd	Vol.	Page
effect of food and weather on	19	103
evaporated	7	477
fats	8	406
	19	103
fats, determination of	19	106
food value of	8	403
grade A	8	407
	19	105
grade B	8	407
	19	105
grade C	8	407
	19	105
grades of	8	407
handling	8	402
house	8	402
lactation, advance of	19	103
malted	8	411
methods of analyzing	19	106
modified	8	404
nitrogenous compounds of	19	104
nutritive value of	19	104
pasteurization of	8	401
	19	106
per capita consumption	8	407
powdered	8	411
preservation of	19	106
preservatives, detection of	19	107
proportions of water and solids	19	103
proteins in	19	104
raw	19	105
skimmed	19	107
solids, non-fat	19	106
specific gravity of	19	106
standards of purity	19	105
sugar	19	104
salts or ash of	19	104
watered or skimmed, detection of	19	107
Milking	8	402
machine	19	109
partial	19	103
Morilac	8	404
Nutrition of farm animals	20	510
Pasteurization	8	401
	19	106
Pasteurized milk	19	105
Powdered milk	8	411
Rennet	23	377
Whey	29	255
Yougert	8	404

DOMESTIC ANIMALS

General	Vol.	Page
Animals, domesticated	1	710
for body covering	1	711
for eggs	1	711
for hunting	1	710
for labor	1	711
for meat	1	711
for milk	1	711
for pets	1	711
from wild	1	710
improvement under domestication	1	711
native characteristics of	1	711
objects of domestication	1	711
purposes of domestication	1	710
sources of material	1	710
domestication of	7	21
nutrition of	20	510
Ass	2	409
domesticated	14	398
Breeding	4	460
Bureau of Animal Industry	1	265
	6	23
	11	102
Cat	6	23
Abyssinian	6	26
American interest in	6	25
Angora	6	25
Asiatic races	6	27
Caffre	6	24
Club	6	28
domestic	6	24
fanciers' associations	6	28
gloved	6	24
	13	152
hints to breeders	6	28
house, origin and history of	6	24
Maine	6	27
Maltese	6	27
Manx	6	26
	18	250
Mediterranean	6	24
North African	6	24
Persian	6	25
show points	6	25
Siamese	6	26
tabby	6	25
temperament and intelligence	6	27
tortoise-shell	6	25
Cattle	6	109
Aberdeen Angus	6	111
Ayrshire	6	111
beef type	6	111
Brahman	21	68
Brown Swiss	6	112
bull	5	8
cow	5	8
Dairy breeds	6	111
Devon	6	112
Dexter	6	112
Diseases of	6	114
Dual purposes	6	112
Dutch Belted	6	112

General — cont'd	Vol.	Page
Economic factors	6	113
Feeding	6	123
French Canadian	6	112
Galloway	6	111
Guernsey	6	111
Hereford	6	111
Highland	14	185
Holstein-Friesian	6	112
Indian Humped	15	29
Jersey	6	111
Kerry	6	112
Maverick	18	453
ox	21	67
pre-historic	6	110
raising	6	109
Red Polled	6	112
Shorthorn	6	111
statistics	6	112
white	29	270
	8	183
Dog	9	223
Basset hound	3	318
Beagle	3	375
	9	225
Bloodhound	4	114
	9	223
Borzoi	9	224
Bull	5	9
	9	226
Bull terrier	26	447
Cape hunting	5	547
Chesapeake Bay	9	225
Chowchow	6	595
Collie	7	265
bearded	9	226
smooth	9	226
Cur	8	304
Dachshund	8	388
	9	227
Dalmatian	9	225
standard	9	220
Deerhound, standard	9	224
English setter, standard	9	225
Eskimo	10	498
Field	11	182
Fox	11	565
Foxhound	11	566
English	9	224
Fox terrier	11	567
Great Dane, standard	9	224
Gordon setter	9	225
Greyhound	13	466
Italian	9	224
standard	9	224
Griffon	13	471
Hairless	13	625
Hound	14	443
otter	21	49
Southern	14	443
Mastiff	18	419
standard	9	224
Tibet	26	607
Mexican hairless	18	736
Newfoundland	20	273
standard	9	224
Non-sporting	9	223
otter	21	49

General — cont'd	Vol.	Page
Pointer	22	282
standard	9	224
white	2	567
Pomeranian	25	425
Poodle	9	227
Pugs	9	227
Raccoon	23	107
retriever	9	225
	23	436
Saint Bernard	24	123
standard	9	223
Setters	9	225
	24	608
Irish	9	225
Sheep	9	226
old English (bob-tail)	9	226
Spaniel	25	343
black	9	225
Cocker	9	225
Field	9	225
Irish water	9	225
Japanese	9	227
Sporting	9	225
Toy	9	227
Spitz	25	425
Sporting	9	223
Staghound	9	224
Terrier	9	226
	26	447
Airedale	9	226
Bedlington	9	226
	26	448
Black and tan	9	227
Boston	4	303
	9	227
	26	447
Dandy Dinmont	9	226
	26	447
Fox	9	227
	26	447
English white	26	447
Irish	9	227
	26	447
Maltese	9	227
Manchester	9	227
	26	448
Paisley	26	447
Schipperke	26	448
Scottish	9	226
	26	447
Skye	9	226
	26	447
Welsh	9	226
	26	447
Wolfhound	29	442
Yorkshire	9	226
	26	448
Tibet	26	607
Whippet	9	224
Wolfhound	29	442
Irish	9	224
Russian	4	284
	9	224
Domestic animals	1	710
	25	657
Domesticated animals of Italy	15	741

General — cont'd	Vol.	Page
Donkey	2	409
Farm animals, nutrition of	20	510
Goat	12	739
Angora	12	740
Cashmere	12	741
Common	12	741
Milch	12	741
Hare, Belgian	23	105
Horse	9	190
American thoroughbred	14	387
blooded	14	386
breeding	14	406
broncho	4	578
care of	14	389
feet	14	390
foal	12	390
Clydesdale	7	140
digestion disorders	14	391
diseases of	14	389
	14	392
draft	14	386
European race	14	386
evolution	14	396
farm	14	386
feeding	14	391
French coach	14	386
	14	401
Galloway	14	387
German coach	14	386
Hackney	14	386
heavy harness	14	403
height of early thoroughbred	14	387
high-grade carriage	14	401
light coach	14	386
mare	14	386
military	14	401
Morgan's line	14	388
mustang	4	578
	19	655
the most perfect	14	401
Percheron	14	402
	21	571
pony	14	387
	22	353
Indian	14	386
Shetland	14	387
riding and driving	14	402
Rysdyck's Hambletonia	14	388
saddle	14	405
Shire	14	389
shoeing	14	391
stallion	14	386
studhorse	14	386
Thoroughbred	14	410
breeding and training	14	410
racing records	14	410
trotting and pacing	14	407
evolution of	14	388
progenitor of	14	388
records	14	408
Vermont cart	14	389
Horses, best American	14	386
Hybridity	14	535
Jennet	16	15
Llama	17	547
Nutrition of farm animals	20	510
Pony	14	387
	22	353
Indian	14	386
Shetland	14	387
Sheep	24	672
Ancon	21	48
breeding habits	24	672
Cheviot	6	431
Dall's	3	693

General — cont'd	Vol.	Page
Fannin's	3	693
gregariousness of	24	672
habits	24	672
how to determine age of	24	672
Merino	24	673
American	24	673
Australian	24	673
mutton type	24	673
Otter	21	48
types	24	672
wool type	24	673
Stock	25	656
Stock breeding	25	656
cross-breeding	25	658
general principles	25	656
law of inheritance	25	658
Mendel's law	18	622
	25	658
present-day methods	25	657
Swine	26	138
bacon hogs	26	139
barrow	26	139
boar	26	139
management and handling	26	140
sow	26	139
types and breeds	26	138
See also under **Agriculture — Stock Raising.**		

Animal Diseases and Pests

	Vol.	Page
Abortion, contagious	14	393
Acne, contagious	14	398
Anaemia, progressive, pernicious	6	123
Animals, domestic, diseases of	1	708
Animal parasites	6	119
Anthrax	2	19
	14	393
	23	526
emphysematous	14	393
preventive inoculation	2	20
Blackleg	23	526
	28	48
Black-quarter	4	37
Bloat	4	90
Blood, white cell	6	122
Bones, softening of	6	122
Boophilus bovis	23	526
Broken wind	14	54
Cattle, diseases of	6	114
fever	6	122
fever (Southern)	6	118
immunity from disease	6	116
plague	6	123
tick	6	123
Chorea	9	230
Constitutional diseases	6	121
Contagious diseases	6	114
	14	393
Curb	8	305
Deer fly	14	410
Diseases, specific, infectious	1	708
Distemper	9	172
	9	231
	14	393
Distoma	9	186
Dogs, disease of	9	230
Dourine	9	283
	14	393
Ectropium	9	231
Enzootic	10	406
Equine influenza	14	393
Farcy	11	18

Animal Diseases and Pests — cont'd	Vol.	Page
Fardel bound	11	18
Fever	6	122
Aphthous	23	526
Petechial	14	393
Shipping	14	393
Southern	23	526
Spanish	23	526
Texas	23	526
treatment of	6	122
Fleas	6	120
	11	340
Flies, small black	6	120
Foot and Mouth disease	6	115
	23	526
Foot-rot	11	455
Founder	11	541
Gad fly	14	410
Gastro-enteritis	14	393
Glanders	12	680
	14	393
Grub in head	24	276
Heaves	14	54
Hog cholera	28	48
Horse bot-fly	14	410
Horse, diseases of	14	389
fly	14	410
liver diseases	14	392
pox	14	393
Hoven	4	90
Hydrophobia	9	231
	14	582
Immunization	1	709
Infectious diseases	1	708
causes	1	708
duration	1	708
lesions	1	708
incubation	1	708
transmission	1	709
Inflammation	6	122
Influenza	14	393
Intestinal worms	6	121
Itch	15	557
Itch mite	15	557
Laminitis	11	541
Lampers or lampas	16	683
Leukemia	6	122
Liver Flukes	6	120
Loco	17	564
	25	471
Louse	17	691
Lung plague	6	114
Lymphadenoma	6	122
Mal de Caderas	14	393
Maladie du Coit	9	23
Mange	6	120
	9	231
	18	212
Metritis	28	50
Milk fever	28	50
Mites	6	120
	26	608
Mosquitoes	6	120
	19	502
Mouth thrush	14	393
Murrain	19	609
Nagana	14	393
Non-contagious diseases	6	121
Nosema	25	434
Oedema, malignant	14	393
Opthalmia, infectious	14	393
Paraplegia, infectious	14	393
Parasites, animal	6	119
vegetable	6	119
Parasitic diseases	1	709
	14	396
Pink eye	22	101
Pleuro-pneumonia	23	526
Pneumonia	14	393
Poll evil	22	318

Animal Diseases and Pests — cont'd	Vol.	Page
Protozoa, parasitic	6	119
Quarter ill	23	526
Rabies	9	231
	14	393
	14	582
Rheumatism	6	122
Rinderpest	6	114
	23	525
Ringbone	23	527
Roaring	23	563
Rot	23	713
Rumen	4	90
Sand crack	24	251
Scab	24	345
Scabies	6	120
	24	345
Sheep-bot	24	676
Shipping fever	14	393

Animal Diseases and Pests — cont'd	Vol.	Page
South Africa horse sickness	14	393
Southern cattle fever	6	118
Spavin	25	364
Splint	25	426
Spring halt	25	452
Staggers	25	470
Strangles	14	393
	25	710
String halt	25	452
Stomach-staggers	25	470
Surra	14	393
	26	90
Texas fever tick	6	123
Thrush	26	598
Thrush, mouth	14	393
Tick, cattle	6	123
fever	6	118
Texas fever	6	123

Animal Diseases and Pests — cont'd	Vol.	Page
Ticks	26	608
Toxins (horse)	14	393
Tuberculosis	6	118
	14	393
	23	526
distribution among animals	23	526
Tympanites	4	90
Vesicular exanthema	14	393
White cell blood	6	122
White scours	14	390
Wind-galls	29	379
Worms, intestinal	6	121
round	6	121
stomach	14	396
tape	14	396
See also under **Medicine — Veterinary Science.**		

DOMESTIC ECONOMY

General

General — cont'd	Vol.	Page
Cookery	7	625
as a science	7	626
decorative	7	626
evolution of	7	627
literature relating to	7	627
revolution in	7	631
Dietetics	9	101
Food	11	428
adulteration of	11	429
carbonaceous	11	429
carbo-nitrogenous	11	429
Control Law	11	432
laws	11	445
Alabama	11	447
Arkansas	11	447
California	11	447
Colorado	11	447
Connecticut	11	447
Delaware	11	447
District of Columbia	11	448
Florida	11	448
Georgia	11	448
Hawaii	11	448
Idaho	11	448
Illinois	11	448
Indiana	11	448
Iowa	11	449
Kansas	11	449
Kentucky	11	449
Louisiana	11	449
Maine	11	449
Maryland	11	449
Massachusetts	11	449
Michigan	11	450
Minnesota	11	450
Mississippi	11	450
Missouri	11	450

General — cont'd	Vol.	Page
Montana	11	450
National	11	445
Nebraska	11	450
Nevada	11	450
New Hampshire	11	450
New Jersey	11	451
New Mexico	11	451
New York	11	451
North Carolina	11	451
North Dakota	11	451
Ohio	11	451
Oklahoma	11	451
Oregon	11	452
Pennsylvania	11	452
Philippine Islands	11	452
Porto Rico	11	452
Rhode Island	11	452
South Carolina	11	452
South Dakota	11	452
Tennessee	11	452
Texas	11	452
Utah	11	453
Vermont	11	453
Virginia	11	453
Washington	11	453
West Virginia	11	453
Wisconsin	11	453
Wyoming	11	453
liquid	11	429
nitrogenous	11	429
organic	11	428
poisoning	11	433
preservation	11	435
problems and the World War	11	441
recent legislation respecting	11	445

General — cont'd	Vol.	Page
Home economics	14	333
and the World War	14	334
as pedagogical subject	14	334
introduction into State agricultural colleges	14	333
House	14	445
Household arts, extension work in	14	333
Life ration for one day	9	104
Man, nutrition of	20	515
Nutrition investigation by Department of Agriculture	14	334
Nutrition of man	20	515
Smith-Lever Extension Act	14	333

Beverages

	Vol.	Page
Absinthe	1	52
	17	500
Ale	1	356
	3	600
Apple brandy	2	89
Apple-jack	2	89
Arrack	2	325
	3	601
	9	178
	9	183
	11	476
Bang	3	145
Bangue	3	145
Beef tea	3	428
Beer	1	157
	1	356
	3	600
	18	751

Beverages — cont'd	Vol.	Page
bock	4	142
	10	40
spruce	25	460
Benedictine	3	507
Beverages	3	598
Brandies, fruit	9	184
Brandy	3	601
	4	413
	9	178
	9	183
	17	499
	17	500
	29	390
Buttermilk	5	90
Catawba	6	47
Chambertin	6	265
Champagne	6	270
	17	499
Chica	6	437
Chi-chi	3	601
Chocolate	1	157
	3	599
	7	189
Cider	6	673
Cocoa	3	599
	7	189
Coffee	1	157
	3	598
	7	209
Brazil	4	433
Colombia	17	63
Costa Rica	17	63
Ecuador	17	64
Guatemala	17	63
Hawaii	14	2
Latin America	17	62
Mexico	17	64
Nicaragua	17	63
Salvador	17	64
Venezuela	17	64
Cordials	9	178
Crême de Noyau	20	479
Curaçao	8	305
Doppelkümmel	16	555
Eau crêole	9	518
Eau de vie	9	518
Eau de vie de Dantzig	9	518
Eau de vie d'Hendaye	9	518
Gilka Getreidekümmel	16	555
Gin	3	601
	9	178
	9	183
	12	658
	17	500
Ginger ale or beer	12	658
Guarapo	3	601
Hop extract	14	377
Hops	14	374
Kava	3	601
Kephir	3	601
	16	374
Kirsch	16	460
Kirschwasser	16	460
Kornbranntwein	9	178
Krass	3	601
	23	98
Kumiss	16	554
Kümmel	16	555
Lacrima Christi Wine	17	499
Lacrimæ Christi	16	639
Lacrymae Christi	16	639
Lemon juice	17	281
Liqueur	17	497
Liquor and the liquor traffic	17	499
Liquor manufacture	17	501
Liquors, consumption of	17	501
distilled	1	158
	9	178
	17	500
first distilled	9	184

Beverages — cont'd	Vol.	Page
malt	17	500
spirituous	9	178
sweet	9	183
Maté	4	434
	18	424
Mead	18	474
Medoc	18	590
Milk	19	102
Mocha	12	724
Negus	20	57
Palm wine	26	667
Paraguay tea	4	434
	18	424
Pito	6	437
Porter	3	600
Poso	6	437
Pulque	3	601
Punch	23	15
Quass	23	66
Rack	2	325
Rum	3	601
	9	178
	9	183
	9	184
	17	500
	23	264
Sake	3	601
Schnapps	9	178
Slivovitz	9	178
Soda water	25	221
Soma	3	601
Tartar	29	390
Tea	1	160
	3	599
	26	306
Brazil	4	444
brick	26	307
consumption	26	308
cultivation	26	306
culture in the United States	26	307
green	26	307
history of	26	307
in America	26	309
imports	26	309
infusion	26	308
plucking	26	306
processing	26	306
production	26	307
varieties of	26	309
Toddy	11	476
	26	667
Vodka	3	601
	9	178
	9	183
	17	500
	28	162
Water	29	14
Water supply for municipal, domestic and potable purposes, including its sources, conservation and distribution	29	39
Whisky	3	601
	9	178
	17	500
	29	257
bourbon	4	348
	9	179
	9	184
Irish	9	183
Kentucky	9	184
oat	9	180
half rye	9	179
malt	9	180
rye	9	179
Scotch	9	183
wheat	9	180
Wine making	29	387

Beverages — cont'd	Vol.	Page
Wines	1	160
	3	600
	17	499
	18	751
	29	387
	29	391
acid	29	392
alcoholic strength, etc., of	29	392
Amontillado	17	499
Australian	29	392
Austrian	29	392
Bordeaux	4	265
bouquet of	4	345
Burgundy	5	43
	17	499
Canary	5	489
Cape of Good Hope	29	392
Catawba	6	47
Chablis	17	499
Claret	7	37
	17	499
classification of	29	392
Falernian	10	729
fino	17	499
flat or cloudy	29	392
French	29	392
German	29	392
Grecian and Ionian	29	392
greasy	29	392
Italian	29	392
Lacrima Christi	17	499
Madeira and Canary Island	29	392
Malaga	18	159
Malmsey	17	499
	18	169
Maraschino	18	262
Marasquino	18	262
Muscat	17	499
Muscatel	19	614
Oloroso	17	499
Persian	29	392
Port	22	387
	29	390
Portuguese	29	392
press	29	386
production of	17	500
	29	393
red dry	29	392
Russian	29	392
Sauterne	17	499
	24	321
Sherry	17	490
	24	707
	29	390
Spanish	29	392
sparkling	17	499
sweet	29	390
Swiss	29	392
Tarragona	17	499
Tokay	17	499
Turkish	29	392
vermouth	17	499
of the United States	29	392
white	29	390
white dry	29	392
white sweet	29	392
See also Brewing, Distilling and Wine-making.		

Foods and Foodstuffs

	Vol.	Page
Ahuatle	16	520
Allasch	16	555
Apiaceæ	27	266
Apple	2	84
Arrow-root	2	330
Aspic	2	408
Asparagus	2	409
	11	429

Food and Foodstuffs — cont'd	Vol.	Page
Assai	2	410
Ayu	11	274
Bagasse	3	38
Balachong	3	64
Banana	3	131
	11	429
Bannock	3	210
Bass	11	274
Beans	3	377
green	11	429
Lima	3	378
Beets	11	429
Benne oil	3	519
Benzoate of soda	3	532
Biscuit	4	13
Blood pudding	25	86
Bluefish	11	274
Botargo	4	312
Blutwurst	25	86
Bread, all rye	4	450
and bread making	4	447
fruit	4	452
graham	13	107
guarana	13	513
mixed rye	4	448
nut	4	452
victory	4	448
wheat	4	449
	4	448
whole rye	4	448
Brose	4	597
Butter	5	84
	8	407
	11	429
Cabbage	5	115
	11	429
Cake	4	448
Canarium commune	16	289
Candlefish	11	274
Canned meats, composition of	11	437
Caramel	5	583
Carbohydrates	5	587
Carbonaceous foods	11	429
Carbo-nitrogenous foods	11	429
Carrots	5	674
	11	429
Cassareep	5	707
Cassireepe	5	707
Cassiripe	5	707
Cauliflower	6	130
	11	429
Caviar	6	151
	25	756
Caviare	6	151
	11	436
Charqui	6	336
Cheese	6	373
Cheese poison	27	247
Chilles	6	512
Chinese swallows' nests	6	559
Chow-chow	6	595
Chowder	6	595
Chutney	6	665
Cinnamon	6	686
Cocoa	7	189
Cocoanut	21	217
shredded	21	217
Codfish	11	275
Colza oil	7	347
Condensed milk	4	266
	7	477
Condiments	7	479
Confectionery	1	158
	7	486
Corn	7	698
	11	429
Corn starch	25	493
Cream	11	429
Cresset	8	182
Cruller	16	544

Food and Foodstuffs — cont'd	Vol.	Page
Cucumber	8	290
	11	429
Curry paste	8	315
powder	8	315
Date	8	490
	11	429
Date palm	21	217
Doppelkümmel	16	555
Eggs	9	726
	9	727
Ekauer	16	5'5
Eulachon	11	274
Extract of meat	10	673
Farina	11	20
Figs	11	429
dried	11	201
Fillet	11	210
Fish, smoking of	11	436
Fishes as food for man	11	274
Flesh	11	347
effect of salting upon	11	435
Fletcherism	11	349
Flour and bread	1	158
cereal merits of	4	448
entire wheat	11	382
first clear	11	383
graham	11	382
middlings purifier for	15	284
milling, American	11	385
mills	18	752
patent	11	383
Red Dog	11	383
wheat	11	382
whole grain	4	451
Food	11	428
absorption of	20	516
adulteration of	11	429
composition of	20	515
control law	11	432
dietary standards	20	519
digestibility of	20	517
digestion of	20	516
drying of	11	435
fuel value of	20	517
inorganic	11	428
jewish rules regulating	16	123
liquid	11	429
nitrogenous	11	429
of primitive man	4	446
poisoning	11	433
preparation of	20	519
preservation	11	434
by chemical substances	11	438
by drying	11	435
by exclusion of air	11	436
by pickling	11	440
by preserving	11	440
by salting	11	435
by smoking	11	436
problems and the war	11	441
requirements	20	519
selection of	20	520
legislation respecting	11	445
Gelatine	12	360
	25	86
Graham bread	13	107
Green sturgeon	25	756
Herbs, culinary	14	120
Herring	11	275
Honey	1	158
	3	420
	14	352
Honey-dew	14	356
Ice cream	8	404
	8	410
Jaggery	15	595

Food and Foodstuffs — cont'd	Vol.	Page
Jams	1	159
Java almond	16	289
Jellies	1	159
	5	509
	16	11
Koo-Cha-Bee	16	520
Krambambuli	16	537
Lactarene	16	639
Lactose	16	640
Leaven	17	201
Levulose	17	331
Liquorice	17	403
Macaroni	18	8
Mace	18	43
Margarin	18	280
Margarine	18	280
Marmalade	18	304
Marsh Mallow	18	324
Matzoon	18	446
Mayonnaise	18	469
Meat biscuit	4	266
Meth	18	474
Mixed rye bread	4	448
Molasses	25	801
Mushrooms	19	624
Mustard	1	159
	19	653
New foods and population	22	366
Noyau	20	479
Nutrition of man	20	515
Nuts	20	521
Oats	11	429
	20	733
Old man; old woman	20	655
Olea chrysophylla	20	664
Oleomargarine	15	284
	20	659
	25	86
Olive	20	663
Olive oil	1	159
	11	429
	20	664
Olla Podrida	20	667
Onion	11	429
	20	690
Paddle fishes	25	756
Palm oil	1	217
	5	496
Parsnip	11	429
	21	348
Pastille	21	373
Pate de foie gras	21	380
Peanut	11	429
	21	451
butter	21	451
oil	21	452
Peas	21	435
green	11	429
	21	436
Pemmican	4	266
	21	491
Pepper	21	565
Pepper pot	21	565
Pickles	5	509
	22	67
Pickles and canned goods	1	159
Pickling	11	440
Pilau	22	83
Pillaf	22	83
Pol	22	279
Polenta	22	301
Portland sago	24	110
Potato	22	444
sweet	11	429
white	11	429
Potpourri	22	449
Preserves	1	159
	5	509
Preserving	11	440

Food and Foodstuffs — cont'd	Vol.	Page
Proteins in milk	19	104
Prunes	11	429
	22	713
Pumpernickel	22	800
Raisins	11	429
	23	194
Ratafia	23	224
Red Surmullet	11	274
Rhubarb	11	429
	23	478
Rice	11	429
	23	486
Rolls	4	448
Sago	24	110
meal	24	110
Saleratus	24	181
Sally-Lunn	24	190
Salmagundi	24	190
Salt	24	199
Salt of the Orient	8	315
Samp	24	225
Sauces	5	509
Sauerkraut	24	316
Semolina	24	556
Shad	11	274
Shell fish	8	263
	11	429
Shovel-nosed sturgeon	25	756
Snails, utility of	16	699
Soda biscuits	4	448
	4	449
Sodium benzoate	3	532
Soufflé	25	268
Spanish mackerel	11	274
Spices	1	160
	25	404
Spinach	11	429
	25	410
Sprouts	11	429
Starch	25	492
preparation of	25	492
rice	25	493
wheat	25	493
Sturgeon	25	756
Sugar	1	160
beet	25	799
comparison of cane and beet	25	802
fruit	17	331
granulated	25	801
maize	25	803
maple	25	802
palm	25	802
sorghum	25	803
Sweetbread, neck	21	241
stomach	21	241
Syrup	26	193
Tabasco	26	665
Tapioca	5	709
	26	263
Toast	26	258
Tomato	11	429
	26	680
Tonka bean	27	89
Tuckahoe	27	128
Turmeric	27	202
Tripe	25	86
Trout	11	275
Turnips	11	429
	27	205
Umbelifers	27	266
Valerian	27	647
Vanilla	27	683
Vanillin	2	322
Vegetables, food value of	27	719
Verjuice	28	15
Vinegar	1	160
	28	101
wine	28	101
wood	28	102
Vitellus	28	151

Food and Foodstuffs — cont'd	Vol.	Page
Wappatoo	28	256
Weakfish	11	274
Wheat	11	429
	29	243
bread	4	449
starch	25	498
Whey	29	255
Whitefish	11	274
White sturgeon	25	756
Yam	29	610
Yeast, compressed	29	622
See also **Dairying and Dairy Products; Meat and Meat Products; Sugar and Sugar Making.**		

Cookery

Bakery construction	4	450
Bakery equipment	4	450
Bakery shops, materials	4	448
modern	4	448
products	4	448
Baking	7	629
oldest form of	4	447
pans, primitive	4	447
plants, whole wheat meal	4	451
powder	3	63
process	4	449
scientific principles underlying	4	448
temperatures	4	449
Boiling	7	630
Bones, use of	4	213
Braising	7	630
Broiling	4	574
	7	629
Cookery	7	625
	25	675
Cooking stove	25	703
Dutch oven	9	437
Fireless cooker	11	249
Fire making	11	242
Fricasseeing	7	630
Frying	7	630
Gas stoves	25	703
Griddle baking	7	630
Grilling	7	629
Herbs, culinary	14	120
Oil stoves	25	703
Oven	21	57
Pot-roasting	7	631
Range	25	703
Roasting	7	629
Rotary cook stove	25	703
Salt seasonings	24	199
Sautéing	7	630
Simmering	7	630
Smothering	7	631
Steaming	7	631
Stewing	7	630

Clothing

Boots	4	254
Cap	5	541
Cashmere shawls, Indian	24	666
Persian	6	570
	24	666
Chiton	9	330
Chlamys	6	574
Clothing industry in America	7	126
Clothing, French	8	46
English	8	46
Collars	7	252
Corset	8	23
Costume	8	45
academic	8	48
Greek and Roman	8	45

Clothing — cont'd	Vol.	Page
Cothurnus	9	329
Cuffs	7	252
Dolman	9	288
Dress	9	329
reform	9	330
Fabrics for knit underwear	14	425
Fashion	11	50
Glove	12	721
Gloves, knitted	12	724
Goloshes	13	39
Hats	9	329
	13	754
felt	13	755
horsehair	13	756
silk	13	756
straw	13	756
Himaton	9	330
Hooped skirts	8	204
Hosiery and knit goods	26	474
Hosiery and knit goods industries in the United States	14	424
Hosiery and knit goods, production of	14	425
Hosiery, seamless	14	424
Primitive sandal	9	329
Ribbed underwear	14	425
Shawls	24	666
Shoes	4	254
	9	330
Sock	25	218
Stocking	25	661
String collars	7	252
Trunk hose	27	107
Wimpel	29	371
See also **Cotton and Cotton products; Furs and Fur-bearing Animals; Gems, Jewelry and Precious Metals; Shoes; Hides and Leather; Sociology; Textiles and Textile Manufacture.**		

Shelter

Apartment house	2	53
Building	4	701
Dwelling	16	125
Floor	11	381
	15	102
Flooring	15	102
Floor mattings	11	169
House	14	445
Matting	18	445
Residence	23	411
Tenement house	26	413
fire protection	26	413
light and ventilation	26	413
water supply	26	414
Tenements, model	26	414
See also **Architecture; Building and Construction; Engineering; Fuels and Illuminants; Heating, Lighting and Ventilation.**		

Furniture and Furnishings

Argand burner	16	679
Armoire	12	189
Art nouveau	12	196
Astral lamp	16	681
Beds	3	410
	12	185
Bedstead	12	188
Benkler's lamp	16	681
Betty lamps	16	680
Bisellium	12	188
Blanket	4	62

Furniture and Furnishings — cont'd	Vol.	Page
Buffet	4	696
Candles	5	495
	18	751
Canny lamp	16	682
Carcel	16	680
Carpet	5	656
Chair	6	249
	12	185
Chaise à vertugadin	12	190
Chandelier	6	283
Chests	12	185
Children's articles	12	187
Chippendale furniture	6	563
	12	183
	12	184
Clocks	7	118
	12	186
Coal oil and kerosene lamps	16	682
Coffers	7	211
	12	189
Colcothur	8	219
Common stool (sedile)	12	188
Constitution mirror	12	186
Couch	15	100
Court cupboards	12	193
Crocus	8	219
Cupboards	12	185
Cup bordes	12	189
Cylinder stove	25	702
Dais	8	412
Desks	12	186
Dining room illuminator	16	681
Divan	9	197
Domestic refrigerators	23	318
Dresser	12	188
Dressing table	12	185
Dressoirs	12	189
Empire furniture	12	191
English lantern clock	12	186
Faldestool	12	189
Fender	11	115
Floor cloth	11	361
Four-legged stool (diphros)	12	187
Frisian wall clocks	12	186
Furniture	12	182
	15	102
Byzantine	12	188
Colonial	12	187
Egyptian	12	187
English	12	192
Elizabethan	12	192
Georgian	12	193
Jacobean	12	192
Queen Anne	12	193
Tudor	12	192
European	12	189
French	12	190
Empire	12	191
Louis XIV	12	190
Louis XV	12	190
Louis XVI	12	191
Regency	12	190
German	12	191
Greek	12	187
history of ancient	12	187
Italian	12	189
Mediaeval	12	189
Roman	12	188
Romanesque	12	189
German bureau	12	192
student lamp	16	682
Hand lanterns	16	682
Heppelwhite	12	183
Hollow candles	5	496
Jacobean period	12	192
Jamb stove	25	702
Jug	16	238

Furniture and Furnishings — cont'd	Vol.	Page
Kathedra	12	187
Kunstschrank	12	192
Lamp	16	678
Lantern	16	737
Lanthorn	16	737
Linoleum	17	462
Looking glasses	12	186
Low boy	12	185
Marriage chest	12	190
Matting	18	445
Mirrors	12	186
	19	221
Mission style	12	196
Monopodium	12	188
Needle	20	89
Oil cloth	11	361
Oval regulator stove	25	702
Ozokerit (candle)	5	496
Painter's lamps	16	682
Paper hangings	28	233
Queen Anne period	12	193
Paraffine candles	5	496
Refrigerator	23	318
Regency style	12	190
Rochester lamp	16	682
Rohlfs furniture	13	421
Roman lectus	12	188
Rugs. See under Fine Arts — Minor Arts.		
Safety match	18	423
Samovar	24	225
Screens	12	187
Settle	12	185
Sewing machine	14	293
	24	627
Sheraton furniture	12	183
Sideboards	12	186
Stanley stove	25	702
Stoves	25	702
Tables	12	186
Tallow	26	229
Thimble	26	558
Thronos	12	187
Tinder	26	641
boxes	26	641
German	26	641
Spanish	26	641
Tripous	12	187
Trunk	27	107
Tudor period	12	192
Veneers and veneering	27	726
Wall cupboards	12	189
paper	28	233
Warming pans	12	186
Washstands	12	186
Water glass	25	223
Wicker woven baskets	29	293
woven furniture	29	293
See also Glass and Glass-making; Pottery and Porcelains.		

Laundry and Cleaning

	Vol.	Page
Bleaching	4	72
materials	4	74
Bluing	4	130
Brushes and brooms	4	640
Carpet sweeper	5	660
Carpet sweeper, first	5	660
Laundry machinery	17	105
Mangle	18	212
Starch	25	492
Vacuum cleaner	5	660
Washing machine	28	772

Soaps and Cosmetics

	Vol.	Page
Ambergris	1	471
Andropogon nardus	6	711

Soaps and Cosmetics — cont'd	Vol.	Page
Attar of roses	2	520
Ben, oil of	3	498
Castor	21	579
Castoreum	6	16
Chian	6	435
Civet	21	578
Cold cream	7	236
Cosmetics	8	32
manufacture of	9	350
Cosmetic surgery	8	32
Crutch	15	100
Crutcher	15	100
Dentifrices	21	578
Depilatories	21	578
Eau de Cologne	9	518
Enfleurage	10	334
Essence De Petit grain	10	514
Figging	15	101
Filling	15	101
Glycerin	12	732
Goods	15	102
Hairdressing	8	32
Hair-dyes	21	578
Hair-oils	21	578
Hair-washes	21	578
Manicuring	8	32
Musk	21	578
Tongking	19	650
Tonquin	21	578
Neroli	20	80
Nigger	15	103
Oils	3	330
	8	32
Orris root	21	10
Otto of roses	2	520
Patchouli	21	380
Perfume distilleries	21	580
Perfume, imports	21	582
Perfumery	21	578
imports	21	582
manufacture of	9	350
production	21	581
Perfumes	3	330
	6	407
	21	578
artificial manufacture of	21	580
distillation	9	177
history of	21	581
manufacture of	21	579
manufacture of artificial	21	580
manufacture of natural	21	579
production in United States	21	581
vegetable	21	579
Pomade	3	330
	22	339
Pomatum	22	339
Powder	8	32
Rock soap	23	597
Rouge	23	720
Sachet	21	578
Salve	8	32
Soap	6	391
	18	751
	25	87
	25	154
berry	25	157
bubbles	25	157
castile	25	155
fancy	25	156
floatant	25	156
history of	25	156
making in America	25	156
making in Canada	5	446
manufacture	25	154

Soap and Cosmetics — cont'd

	Vol.	Page
materials	25	154
medicated	25	156
Mexico	18	751
mottled	25	156
plants	25	157
powders	25	156
production of	25	157
scouring	25	156
shaving	25	155
specific properties	25	155
toilet	25	155
transparent	25	156
Tallow tree	26	230
Tonka bean	27	89
Ultramarine	27	264
Ylang-Ylang	11	474
attar of	29	638

Nursery, Sick Room, etc.

	Vol.	Page
Baby carriage, wicker woven	29	283
Cradle	8	148
Doll	9	235
Dietetics	9	101
Flanders babies	9	235
Nursery for children, hygiene of the	20	505
ventilation and warming	20	505
nuisances and sources of contamination	20	505
toilet	20	505
dress	20	506
food	20	506
Nursery lore	20	506
games	20	506
cradle songs	20	507
riddles	20	507
charms	20	502
accumulative stories	20	507
proverbs and refrains	20	507
Sick, foods for	24	779
albuminized milk	24	781
barley-water	24	781

Nursery, Sick Room, etc. — cont'd

	Vol.	Page
Bartholow's food	24	782
beef essence	24	782
beef-juice	24	782
beef-juice and cereal	24	782
beef-tea	24	782
beef-tea, frozen	24	782
peptonized	24	782
bonnyclabber	24	783
bouillon	24	782
bran-tea	24	781
bread jelly	24	783
caramel custard	24	783
caudle	24	781
chicken broth	24	783
chicken jelly	24	783
chicken panada	24	783
chocolate custard	24	783
cider jelly	24	783
clam broth	24	783
consommé	24	782
dextrinized bread	24	784
egg custard	24	783
egg-nog	24	783
egg-water	24	780
Egyptian porridge	24	784
flaxseed lemonade	24	780
grape-juice	24	780
gruels	24	781
gum-arabic drink	24	781
Indian-meal mush	24	783
Irish moss lemonade	24	780
Junket custard	24	783
kumiss	24	781
lemonade	24	780
lemon jelly	24	783
liquid foods made of water	24	780
macaroni water	24	781
milk punch	24	781
mulled wine	24	781
mushes	24	784
mutton broth	24	782
nutritive enemata	24	784
oatmeal gruel	24	781
oatmeal gruel with milk	24	781

Nursery, Sick Room, etc. — cont'd

	Vol.	Page
oatmeal-water	24	781
orangeade	24	780
orange jelly	24	783
oyster broth	24	783
oyster juice	24	783
oyster soup	24	783
pap	24	781
pasteurized milk	24	781
peptonized milk	24	781
plum porridge	24	781
potus imperialis	24	780
pulled bread	24	784
raw beef sandwiches	24	782
rice-water	24	781
rye-meal mush	24	784
sago-milk	24	781
scraped beef balls	24	782
sterilized milk	24	781
toast	24	784
toast-water	24	781
torrefied bread	24	784
treacle possett	24	781
veal broth	24	782
wine jelly	24	783
wine whey	24	783
Toys, American, manufacture of	26	737
Toys, simple	26	738

Biographies

	Vol.	Page
Carême, Marie Antoine	5	606
Fletcher, Horace	11	348
Borden, Gail	4	266
	7	477
Glasse, Hannah	12	712
Harland, Marion	26	448
Jenness-Miller, Mrs. Annie	9	331
Leslie, Eliza	17	316
Lincoln, Mary Johnson Bailey	17	453
Rorer, Sarah Tyson	23	698
Soyer, Alexis Benoit	25	320
Terhune, Mary Virginia Hawes	26	443

DYES AND DYEING

General

	Vol.	Page
Acid chrome colors	9	454
Acid colors	9	454
Acridine dyestuffs	7	160
Aniline red	18	115
Annatto	9	452
Anthracene dyestuffs	7	160
Archil	9	452
Arnotto	9	452
Aurin	2	555
Azurine	2	555
Avivage	15	98
Azo-dyestuffs	7	159
Basic colors	9	454
Berberine	9	452

General — cont'd

	Vol.	Page
Bistre	9	454
Black aniline	7	162
Black-liquor	15	99
Blue	4	124
Aniline	4	124
Alizarin	4	124
Anthracene	4	124
Azure	4	124
Berlin	4	124
Cerulean	4	124
Chemic	4	124
Cobalt	4	124
Coupier's	4	124
Dahlia	4	124

General — cont'd

	Vol.	Page
Diamine	4	124
Dumont's	4	124
Ethyline	4	124
Indigo	4	124
Leithner's	4	124
Logwood	4	124
Methylene	4	124
Ochre	4	124
Paris	4	124
Prussian	4	124
	9	454
Resorcine	4	124
Royal	4	124
Saxon	4	124

General — cont'd	Vol.	Page
Blue Sulphur	4	124
Thénard's	4	124
Verditer	4	124
Victoria	4	124
Vienna	4	124
Brazilain	4	444
Brazil wood	4	444
	9	452
Broom greenweed	9	454
Campeachy wood	9	453
Camwood	9	452
Catechu	6	48
	9	452
Chlorophyll	6	578
Chrome green	9	453
Chrome orange	9	453
Chrome yellow	9	453
Coal-tar colors	7	159
Coccus ilicis	16	378
Cochineal	7	184
	9	452
Coloring matters	7	327
Copra	11	475
Cuba wood	9	452
Cudbear	9	452
Cutch	9	452
Datiscin	8	491
Diphenylmethane dyestuffs	7	160
Direct cotton colors	9	454
Discharge	9	150
	15	100
Double-dyeing	15	101
Dragon's blood	9	296
Dung-bath	15	101
Dyeing	9	448
mixed fabrics	9	449
silk	25	4
Dyer's broom	9	454
Dyer's rocket	9	452
Dyer's weed	9	452

General — cont'd	Vol.	Page
Dyer's weld	9	452
Dyes	9	452
Dyeweed	9	454
Dye stuffs, production of	9	454
Eosins	9	454
Flavin	11	337
Fuchsine	12	142
Fustic	9	452
Gallein	12	244
Gallipoli oil	12	249
Gambier	9	452
Garancine	12	277
Green	13	424
chrome	9	453
Greenweed	9	452
Hair dye	13	624
Hydrazones	7	160
Indian red	15	32
Indian saffron	9	453
Indian yellow	15	33
Indican	15	64
Indigo	9	453
	15	66
Indigo dyeing	15	66
Indigo dyestuffs	7	161
Indigoid dyestuffs	7	161
Indulines	15	80
Iron-buff	9	454
Kermes	16	378
Khaki	9	453
Kokkos	16	379
Logwood	9	453
	11	474
Madder	9	453
Magenta	18	115
Manganese brown	9	454
Miscellaneous colors	9	454
Mordant	19	443
Mordant colors	9	454
Nankin yellow	9	454

General — cont'd	Vol.	Page
Nitro-dyestuffs	7	159
Nitroso-dyestuffs	7	159
Orange, chrome	9	453
Orchil	2	168
	9	452
Paper-coal-tar dyes	21	261
Persian berries	9	453
Prussian blue	9	454
Quercitron	9	453
Quinone-Imide dyestuffs	7	161
Rhodamines	9	454
Robinia	9	453
Rottlerin	16	286
Safflower	9	453
Saffron	24	104
Salt colors	9	454
Sandalwood	9	452
	11	474
Sapan	24	290
Sappan wood	24	290
Saunders-wood	9	453
Scarlet grain	24	357
Soap bark	11	474
Stilbene dyestuffs	7	160
Sulphide colors	9	454
Sulphur colors	9	454
Sulphur dyestuffs	7	162
Thiazol dyestuffs	7	161
Triphenylmethane dyestuffs	7	160
Turkey-red	27	199
Turmeric	9	453
Ultra marine	27	264
Weld	9	453
Wood waxen	9	454
Xanthene dyestuffs	7	160
Yellow wood	9	452
Yellow, chrome	9	453
Yellow, Indian	15	33
Yellow, Nankin	9	454
Young Fustic	9	453

ECONOMICS

General

General	Vol.	Page
Accident insurance	1	70
Accidents, industrial, causes and prevention of	1	71
Advalorem	1	161
Advertising	1	167
Agricultural protectionism, Italian	15	539
American Economic Association, The	1	514
American wheat in 1917 compared with railway rates	23	177
Appropriation	2	98
American system of	2	99
Average	2	674
Averages, science of	25	531
Average, use of	25	531
Bande noire	3	139

General — cont'd	Vol.	Page
Banking. See **Banking and Finance.**		
Birth rate	28	148
Budget	4	677
American	4	678
city	4	680
	4	682
national	4	678
Budgetary practice	22	757
Budget system	22	758
Budgets, foreign	4	681
Budgets of the Provinces, Canadian	5	470
Building and loan associations	4	706
British	7	640
Business cycle	8	205
Capital	5	558
to profit, relation of	29	127

General — cont'd	Vol.	Page
Centralized unions	27	109
Chambers of Commerce	6	265
City	6	711
City manager plan of government	6	716
Combination, industrial	7	350
Combines, British	13	339
Commerce	7	367
Department of	7	366
history of	7	367
internal of the United States	7	372
international	7	381
interstate	7	377
Commerce, increase of	22	365
Commercial world, capital of	29	127
Commission	7	402

General — cont'd	Vol.	Page
Commission of bankruptcy	7	402
Common land	7	409
Compensation	7	428
Competition	7	429
Consumption	7	581
Co-operation	7	639
Corporate funds	8	11
Corporation	8	2
	25	660
Corporations, classes of	8	6
history of	8	2
foreign	8	14
legal	8	6
Credit, economic and public	8	172
	22	757
Crises, economic	8	205
Crown lands, revenues from Canadian	5	469
Currency. See Currency and Monetary Systems.		
Custom-house	8	337
Customs dues, Canadian	5	468
Customs duties	8	338
	26	269
Debt	8	545
Debts, municipal	19	573
public	8	327
national, of the world	19	728
Democracy, history of	8	639
Democracy in industry	10	703
Dispersion	25	535
Distribution	9	186
inequalities, cure for	9	188
national division	9	187
problem of	9	186
relative prosperity, principles of	9	187
social problems	9	187
temporal division	9	187
territorial division	9	187
unskilled labor	9	188
wealth	9	187
Domestic loan, Canadian	5	469
Dominion lands, sale of, Canadian	5	467
Dominion notes, Canadian	5	472
redemption in specie, Canadian	5	472
security for redemption of, Canadian	5	472
securities, Canadian	5	472
subsidy, Canadian	5	470
Economies	9	556
ancient	9	556
classical school	9	560
historical school	9	562
home	14	333
medieval	9	557
psychological school	9	562
Economic argument	13	338
bases, England	13	172
conditions, Italy	15	538
conditions, Russia	24	40
conferences	12	226
democracy	8	644
factors, Canadian	5	428
history	9	556
liberalism	25	169
liberalism, individualism of	25	172
liberalism, political opposition to	25	172
organization, German	12	577
relation of rivers	23	552
reforms, democratic	8	668

General — cont'd	Vol.	Page
resurrection of Italy	15	453
Ricardo's Law of Rent	25	36
Society of Berlin	11	62
Economic thought in the United States	9	563
Economics and the war	9	563
educative influence of, Canadian	5	473
German	14	743
harmonies of	13	716
science of	9	556
Economists, criticism of	25	172
Efficiency engineering	9	714
Emigration	10	293
Emigration, economic effect of	10	293
Italian	15	540
	15	547
Employers' associations	10	302
Employment bureaus	10	304
	27	279
Employment manager	10	306
Employment management	10	306
England, economic status of	14	742
Estate	10	519
Exchange, medium of	19	346
Exchanges	10	618
government regulation of	10	619
Expenditure, British	13	239
Expenditure, Canadian	5	470
Expenditures, extraordinary, Russian	24	49
Expenditures, public	22	754
growth of	22	754
Factory management	10	702
Factories and factory inspection	10	699
Factory system	10	705
	14	288
	25	510
aggregation of capital and plant	10	703
economic dependence of the employee	10	703
Famine	11	8
Farm, cash tenancy	11	30
choosing a	11	34
farm lands, reported value of	23	176
Loan Act, Federal	11	78
management	11	34
manager plan	11	30
share tenancy	11	30
tenancy	11	30
Farmers' association	5	473
Farmers, general	11	39
Farming, relation of capital to	11	36
Federal Act, first, dealing with the standard of value	5	471
Income Tax of 1894	14	744
Income Tax of 1913	14	744
reserve system	19	350
taxation, new features of	5	468
tax system	26	293
Fee system	11	89
Finance. See Banking and Finance.		
Finance, public	22	754
Financial problems of the World War	11	213
Fox farms, Canadian tax on	5	469
Free trade	9	561
	12	45

General — cont'd	Vol.	Page
movement, British	13	338
silver	27	426
Freight cars, number and capacity of	23	178
railway movement of	23	176
service	23	176
train, average load	23	177
Funds, corporate	8	11
Gold reserve (U. S.)	27	425
reserves as of July, 1914	28	647
reserve of principal countries	28	669
Government finance and commerce	11	83
Government disbursements, Russian	24	49
Government ownership, of railways, policy of	23	148
Grange bulletin	5	473
economic enterprises of	5	473
growth of the	5	473
Granger movement in Canada	5	473
Grangers	13	133
Graphic methods	13	146
	25	530
Gresham's Law	13	462
	19	348
History, economic	9	556
Home economics	14	333
Humanitarianism	25	172
Hydro-economics	14	555
Immigration	14	713
Immigration, Canadian	5	409
	5	468
Imports and exports	14	726
Income	14	741
Income tax	14	741
tax, Civil War	14	744
tax, history of	14	742
from taxation	5	467
tax, practical results of	14	745
tax in the United States	14	743
tax of 1894	14	744
tax of 1913	14	744
Independent woman labor, Italian	15	540
Indians, Canadian, Economic status of	5	468
Individualism	9	561
	15	68
Industrial centres, drift of population to	22	367
Industrial distribution	15	81
fatigue	15	85
housing	15	85
hygiene	15	87
organization	15	90
peace	15	93
Relations Commission	15	96
revolution	15	96
workers, education and training of	15	105
Industrialism	27	278
Industries, distribution of	22	366
Industries, naturalization of varied	22	673
Industries, welfare work in	15	110
Industry, variety of	22	673
Inheritance tax	15	133
	26	293
Insurance	15	175
Insurance, accident	1	70

General — cont'd	Vol.	Page
Insurance, credit	15	176
fraternal	15	177
industrial	15	179
law	15	199
life	15	186
marine	15	193
patrol	15	199
science and economics of	15	196
supervision	15	200
tax	15	200
taxation of	15	197
International commerce	15	539
Investments, interest on	5	467
	5	469
Irish land debt	13	239
Issue limit	5	472
Justice, administration of	5	468
Labor. See Labor.		
Labor, Bureau, first	25	510
Labor, Division of	9	205
Laissez-faire	16	655
	25	513
doctrine of	25	169
Land (in political economy)	16	691
taxes	26	293
Legal tender	17	234
Legal tender in Canada	5	473
Legislation, agricultural, in the United States	1	250
Legislation, economic, Canadian	5	468
and safety devices	1	72
Legislation, financial and budgetary practice	22	757
Legislative measures in the interests of the farming class (Canada)	5	473
Libraries, commercial and industrial	17	378
Life extension	17	411
Mail subsidies, Canadian	5	468
Malthusian theory of population	13	717
Manufacturers, National Association of	18	242
Manufactures, census of, American	5	670
domestic system of	14	288
Marriage rate	28	148
Mercantile agency	18	654
Mercantilism	9	557
Merchant Marine of the United States	18	657
Merchant marine without subsidies, English	24	732
Minimum wage	19	172
	25	511
Monetary system of the United States	19	349
Money	19	345
Monopoly	19	366
Moratorium	21	245
Mortgages	15	544
	19	488
Municipal revenues, Canadian	5	466
National debt, interest and management of	5	468
cause of	22	757
Russian	24	49
debts of the world	19	728
National wealth, Argentina	2	218
France	2	219
Germany	2	219
	12	582
United Kingdom	2	219
United States	2	219
Nations, wealth of	29	125
English	29	125
French	29	126
German	29	126
United States	29	126
Natural laws, operations of	23	144
Natural monopolies	22	779
Natural resources, conservation of	7	546
New foods and population	22	366
New Zealand, economic status of	14	743
Note issue, security for, Canadian	5	472
Notes in circulation, Canadian	5	472
Ocean and river service, Canadian	5	468
Ordinance of 1777, Canadian	5	470
Ordinary revenues, Russian	24	49
Overproduction	27	278
Panic	21	244
of 1837, United States	27	317
of 1873	27	321
Paper obligations, history of	5	472
Philosophical radicalism	25	171
Physiocrats	9	558
	11	620
	25	169
Platinum, value of	22	232
Political economy	9	556
	14	289
Pooling combinations	27	109
Pools	22	354
	27	109
Population, growth of	22	364
in 19th century	22	365
increase of	22	365
Port tonnage	22	386
Post-war problems in the Balkans	28	644
Power, utilization of	22	478
Prices	19	346
	22	568
Private operation of railroads, defenders of	23	169
Production, specialization of	22	366
Profit sharing	22	633
Property, laws of	22	660
Property tax	26	292
Protection	22	671
agricultural, in Italy	15	539
reasons for	22	673
objections to	22	673
Protective duties, effect of	22	674
Protective tariff	22	675
	27	316
Provincial Drainage Acts, Canadian	5	473
Provincial finance, Canadian	5	469
Public credit	22	756
	27	342
debt	27	398
expenditures	22	754
finance	22	754
industries, revenues from	22	755
lands	22	763
surveyed	22	763
unappropriated	22	763
revenues	22	755
works (not charged to capital), Canadian	5	468
utilities	22	778
characteristics	22	778
fair valuation of	22	781
obligations resting upon	22	779
Railroad and other land grants	23	136
Railroads, effect of government control on		
State taxation of	23	167
government ownership of	23	169
Railways, government control of	23	167
Railway accidents and legislation regarding	1	73
consolidation	23	143
construction and combination	23	144
construction, true law of	23	143
development	22	365
employees	23	176
service, analysis of	23	176
utilization of	23	176
skeleton, relations of the economic resources of the country	23	175
tariffs	11	717
Real estate, taxes on, Canadian	5	469
Real property, assessed valuation of	23	259
Relief agencies	27	279
Rent	23	380
Reserves, Canadian	5	472
Reserves, gold, of principal countries	28	669
Revenue	13	240
	23	443
system	27	398
Revenues, Canadian	5	466
Revenues, public	22	755
Revenues and expenditures, Russian	24	49
Ricardian theory of rent	13	716
Rice riots, Japan	15	648
Rich Man's Panic	8	209
Road improvement, economics of	13	56
Seigniorial tenure, Canadian	5	420
Shareholder	25	660
Shareholders, liability of	25	660
Shipping subsidies	24	732
American	24	733
Austrian	24	732
Belgium	24	732
British	24	732
Danish	24	732
Dutch	24	732
French	24	732
German	24	732
Italian	24	732
Japanese	24	732
Norwegian	24	732
Russian	24	733
Spanish	24	733
Swedish	24	733
Simplex combination	27	109
Single tax	25	35
	25	184

General — cont'd	Vol.	Page
Single taxers	22	755
Sinking funds	5	468
Sliding	25	97
Socialism, modern	9	563
Socialism, principles of	25	194
South African War, economic aspect of	13	239
Special funds	5	468
Specie circular	27	399
State control, growth of	25	508
Statistical method	25	529
Steamship accidents	1	74
subventions	5	468
Stock	25	656
common	25	656
preferred	25	656
Stockholder	25	660
Subsidies to the provinces, Canadian	5	468
Subways, ownership of	25	780
Succession duties	5	469
Switzerland, economic status	26	149
Syndicalism	26	171
Syndicates	26	171
Tariff	26	268
administration in the United States	26	270
American	7	399
	26	268
French	26	268
of 1846	27	399
policy, German	26	269
question, Canadian	5	473
system	7	399
Taxation	22	755
	26	287
administrative principles of	26	291
canons of	22	755
differentiated	26	292
double	26	293
economic limits of	26	289
economic principles of	26	291
effects of	26	290
equality of	26	291
ethical principles of	26	291
exemptions	26	292
function of	26	288
graduated	26	292
history of	26	289
incidence of	26	290
inequality of	26	290
influence of	26	290
Italy	15	539
legal limitations upon	26	289
limits of	26	289
nature of	26	288
norm of	26	291
political effects of	26	290
principles of	26	291
reason of	26	288
uniformity of	26	291
universality of	26	292
Tax benefit	22	756
Taxes, classification of	26	298
of consumption, influence of	26	290
pecuniary	11	620
Tax shifting	22	756
	26	291
system, actual	22	756
American	26	293
Technical organization, German	12	581
Trade, adverse balances of	22	673
and commerce	5	468
associations	26	748
balance of	3	70
Board of	26	748
dollar	26	748
general federation of	26	764
marks	26	748
schools	26	754
unionism	8	646
Trade and technical press	26	753
Transportation facilities	22	366
Treasury Act, United States	27	399
Treasury, receipts of Canadian	5	473
Treaty tariffs	7	400
Trust movement	15	90
	25	511
Trusts	13	339
	27	108
growth and control of	27	113
Utilitarianism	25	171
	27	620
Underwriting	27	276
Undigested securities, panic of	8	209
Unemployment	27	277
causes of	27	278
insurance	27	280
problem of	27	278
relief and remedy of	27	279
statistics of	27	278
Union, higher types of	27	109
simplest form of	27	109
Unions	27	109
United Kingdom, national debt of	13	239
United States, emigration to	15	548
	27	463
Usury	27	608
Valorization	27	652
Value	27	653
labor theory of	25	178
theory of	13	716
Vital statistics	28	148
Wages	28	208
	29	463
iron law of	8	205
State control of	25	511
Wage system	14	288
War-chest policy, German	22	757
War economics, Canadian	5	355
expenditures, Russian	24	49
European, costs of	28	646
relation of, to world commerce	28	661
pensions	28	683
purposes, special appropriation for, Canadian	5	468
Wealth	29	124
of United States	29	126
international comparison of	29	128
relation of, to population	29	127
of world	29	127
Women in industry, economic status of	29	462
World commerce, relation of European War to	28	661
World indebtedness	19	728
	22	757
	28	646
population	22	364
World's Insurance Congress	15	198
World War, costs of	28	646
influence of, on women in industry	29	462

See also **Banking and Finance; Commerce and Industry; Currency and Monetary Systems; Government and Politics.**

Biographies

UNITED STATES

	Vol.	Page
Adams, Henry Carter	1	120
Adams, Thomas Sewall	1	126
Atkinson, Edward	2	500
Baer, George Frederick	3	36
Baker, Ray Stannard	3	61
Balch, Emily Greene	3	73
Bemis, Edward Webster	3	497
Bolles, Albert Sidney	4	192
Brooks, John Graham	4	595
Carey, Henry Charles	5	606
	9	561
	9	563
Carver, Thomas Nixon	5	690
Clark, John Bates	7	42
Clark, Victor Selden	7	43
Cleveland, Frederick Albert	7	92
Commons, John Rogers	7	416
Conant, Charles Arthur	7	457
Coxe, Tench	8	141
Crowell, John Franklin	8	246
Daniels, Winthrop More	8	457
Davenport, Herbert Joseph	8	497
De Bow, James Dunwoody Brownson	8	544
Del Mar, Alexander	8	624
Dew, Thomas Roderick	9	44
Dewey, Davis Rich	9	46
Dixon, Frank Haigh	9	211
Doten, Carroll Warren	9	271
Ely, Richard Theodore	10	268
Emery, Henry Crosby	10	291
Fairlie, John Archibald	10	719
Falkner, Roland Post	10	731
Field, Edward	11	180
Foote, Allen Ripley	11	458
Gardner, Henry Brayton	12	289
George, Henry	12	478
George, Henry, Jr.	12	479
Gould, Elgin Ralston Lovell	13	83
Gunton, George	13	574
Hackley, Charles Henry	13	607
Hall, Bolton	13	640
Hatch, Rufus	13	752
Havemeyer, William Frederick	13	763
Hollander, Jacob Henry	14	318
Horton, Samuel Dana	14	422
James, Edmund Janes	15	603
Jenks, Jeremiah Whipple	16	14
Johnson, Alvin Saunders	16	167
Johnson, Emory Richard	16	170
Johnson, Joseph French	16	173
Keasbey, Lindley Miller	16	329
Kemmerer, Edwin Walter	16	349
Le Rossignol, James Edward	17	168
Lindsay, Samuel McCune	17	457
Lloyd, Henry Demarest	17	549
McCulloch, Hugh	18	33

Biographies — cont'd	Vol.	Page
Meeker, Royal	18	592
Meyer, Hugo Richard	19	2
Miller, Adolph Caspar	19	117
Moody, John	19	422
Moses, Bernard	19	500
Munro, William Bennett	19	595
Phillips, Ulrich Bonnell	21	764
Raguet, Condy	23	134
Ripley, William Zebina	23	536
Rubinow, Isaac Max	23	748
Scott, William Amasa	24	445
Seager, Henry Rogers	24	479
Seligman, Edwin Robert Anderson	24	542
Shaw, Albert	24	664
Sterne, Simon	25	632
Swank, James Moore	26	110
Taussig, Frank William	26	286
Wagner, Adolf	26	288
Walker, Amasa	28	226
Walker, Francis Amasa	9	563
	28	227
Walling, William English	28	241
Webster, Pelatiah	29	151
Wells, David Ames	26	288
	29	185
Willett, Allan H.	15	196

OTHER COUNTRIES

Biographies — cont'd	Vol.	Page
Adler, Georg	1	142
Arendt, Otto	2	191
Ashley, William James	2	386
Bagehot, Walter	3	39
Bamberger, Ludwig	3	129
Bastiat, Frédéric	3	322
	9	560
	13	716
Baxter, Robert Dudley	3	358
Bezobrazov, Vladimir Pavlovich	3	606
Blanc, Louis	9	561
Blanqui, Jérôme Adolphe	4	63
Bloch, Jean de	4	90
Bodin, Jean	4	144
Böhm Bawerk, Eugen von	4	162
	9	562
Brants, Victor Léopold Jacques Louis	4	417
Brentano, Lujo	4	468
Burdett, Sir Henry	5	34
Cairnes, John Elliot	5	148
	9	562
Cannan, Edwin	5	501
Carli, Giovanni Rinaldo	5	617
Cherbuliez, A. E.	9	562
Chevalier, Michel	6	430
	9	562
Cobden, Richard	4	539
Cohn, Gustav	7	217
Curnot, Antoine Augustin	8	114
	9	560
Detroyat, Pierre Léonce	9	33
Dieterici, Karl Friedrich Wilhelm	9	101
Dorn, Alexander von	9	266
Dowell, Stephen	9	286
Duchâtel, Charles Marie Tanneguy	9	377
Dunoyer, Charles	9	407
	9	560
Dupont De Nemours, Pierre Samuel	9	413
Eheberg, Karl Theodor von	10	24
Enock, C. Reginald	10	397
Eras, Wolfgang	10	466
Fabbroni, Giovanni Valentino Mathias	10	696
Fabroni, Giovanni Valentino Mathias	10	696
Farrer, Thomas Henry	11	49
Faucher, Julius	11	61
Faucher, Léonard Joseph (Léon)	11	62
Fould, Achille	11	533
Fourier, François Charles Marie	9	561
	11	549
Giffen, Sir Robert	12	646
Gossen, Herman Heinrich	9	560
	13	75
Gournay, Jean Oaude Marie Vincent, Seigneur de	13	85
Guyot, Yves	13	584
Hermann, Friedrich B. W. von	9	560
	14	129
Hildebrand, Bruno	9	562
	14	186
Hobbes, Thomas	14	302
Hobson, John Atkinson	14	305
Hourwich, Isaac Aaronovich	14	444
Jannet, Claudio	15	614
Jastrow, Ignaz	15	752
Jevons, William Stanley	9	562
	16	48
Keynes, John Neville	16	388
Kirkup, Thomas	16	459
Knapp, George Friedrich	16	476
Knies, Karl	9	562
Lauderdale, Lord	9	561
Lehr, Julius	17	260
Le Play, Pierre Guillaume Frédéric	17	168
Leroy-Beaulieu, Pierre Paul	17	313
Levasseur, Pierre Emile	17	327
List, Friedrich	9	561
	17	503
Loria, Achille	17	662
Mabilleau, Léopold	18	2
McCulloch, John Ramsey	18	33
Mackenzie, William	18	69
Malthus, Thomas Robert	9	559
	18	171
Marshall, Alfred	18	325
Marx, Karl	9	563
	18	345
Menger, Karl	9	562
	18	629
Mill, James	19	110
Mill, John Stuart	19	110
Molinari, Gustave de	19	325
Müller, Adam Heinrich	9	561
	19	555
Mun, Thomas	19	562
Nasse, Erwin	19	719
Nebenius, Karl Friederich	9	560
	20	23
Nicholson, Joseph Shield	20	320
Owen, Robert	9	561
	21	65
Paish, Sir George	21	131
Paul-Dubois, Louis François Alphonse	21	414
Price, Bonamy	22	567
Price, Richard	22	568
Proudhon, Pierre Joseph	9	561
	22	606
Pufendorf, Samuel	22	792
Quesnay, François	23	84
Raiffeisen, Friedrich Wilhelm	23	136
Rau, Karl Heinrich	9	560
	23	230
Ricardo, David	9	560
	23	484
Rodbertus, Johann Karl	9	563
	23	691
Rogers, James Edwin Thorold	23	628
Roscher, Wilhelm	9	562
	23	691
Rossi, Pellegrino Luigi Edoardo	23	710
Saint Simon, Claude Henri	9	561
	24	168
Say, Jean Baptiste	9	560
	24	343
Schulze-Delitzsch, Hermann	24	405
Seebohm, Frederic	24	527
Senior, Nassau William	9	560
	24	563
Simkhovitch, Vladimir Gregorievitch	25	22
Sismondi, Jean Charles Leonard de	9	561
	25	172
Smart, William	25	109
Smith, Adam	9	559
	12	45
	14	289
	16	591
	25	111
	25	169
Thery, Edmund	26	547
Thünen, Johann Heinrich von	26	601
Webb, Beatrice Potter	29	142
Webb, Sidney	29	143
Wieser, F. von	9	562
Weitling, Wilhelm Christian	29	175

EDUCATION

General	Vol.	Page
Academic degrees	1	60
Academies	9	647
Academy	1	62
	14	179
Adult education	9	591
	26	50
Agricultural education, Japanese	15	719
schools, Japanese	15	673
Agriculture and horticulture, education in, Canadian	5	378
Alma Mater	1	429
American Association for the Advancement of Education	9	697
American Association to Promote the Teaching of Speech to the Deaf	8	534
American Flag-Day Association	11	309
American Lectureship on the History of Religions	17	214
American Lyceum Association	1	541
	9	697
American Manual Alphabet for the Deaf	8	533
Americanizing the alien	22	772
Apprentice system of architecture	2	183
Apprentice shops for girls	26	758
workshops	26	757
Apprentices' schools, Japanese	15	673
Apprenticeship	2	97
	26	755
	26	759
Architecture, education in	2	183
Artistic training in architecture	2	185
Arts	2	369
Baird lectures	17	213
Bampton lectures	17	213
Barring-out	3	280
Barrows lectures	17	214
Better educational advancement	14	29
Binet-Simon graded tests	9	642
Bishop Paddock lectureship	17	214
Blind-alley job	15	106
Blind, education of	4	82
	9	678
Boxing the compass	4	370
Boyle lectures	17	213
Boy scouts	3	33
Brothers of the Common Life	11	191
Business training in architecture	2	184
Camp schools	5	272
Caps	8	51

General — cont'd	Vol.	Page
Carnegie Foundation	5	634
	5	636
Catholic education in the United States	6	88
Cecil Rhodes Scholarships	21	78
	23	472
	23	474
Centennial Exhibition	6	199
	10	660
	12	195
Centennial exposition of 1876	10	660
	13	702
Chautauqua	6	367
Citizenship and education	6	706
City supervision of schools	9	607
Civic education	22	772
Class, classifying, classification	7	50
Coeducation	7	199
in Canada	5	364
Cole lectures	17	214
College	7	253
College dramatics	7	254
Colleges and universities	9	659
municipal	19	573
for teachers	7	261
for women	7	263
Commencement	7	365
Commercial schools, Japanese	15	673
Common schools	7	415
Company continuation—schools	24	388
Compulsory education	9	599
Canadian	5	365
Congregational Union lectures	17	213
Continuation classes	26	761
schools	26	754
	26	756
Co-operation between school and factory	26	47
Co-operative schools	26	754
Corporation schools	24	388
	26	755
	26	761
Correspondence courses	26	49
schools	8	19
Costume, academic	8	48
Courses, elective	10	68
Courtis' tests	8	125
Croall lectures	17	213
Cunningham lectures	17	213
Deaf-blind, the	8	534
Deaf, education of the	8	531
Debating societies	26	47
Degree	8	597
Degrees, academic	8	599
Design, schools of	9	9
Dick bequest	9	80
Diploma	9	140
Docent	9	216

General — cont'd	Vol.	Page
Drew lectures	17	214
Dunce	9	401
Early American museum	19	619
Ecoles normales primaires (France)	11	643
Education, adult	9	591
in other countries	26	50
agricultural	9	592
and citizenship	6	706
and national development	9	672
and the Jews	16	115
and the World War	9	688
commercial	9	597
compulsory	9	599
courses of study in	9	604
elementary	9	608
engineering	9	615
for industrial pursuits	26	763
for trade	26	755
free, Canadian	5	362
government aid to	9	619
health	14	28
higher, in the United States	9	617
European influence on	9	621
Indian	15	61
industrial	9	627
in Fifteenth century	11	194
in Ireland	11	198
in painting	21	114
medical	18	538
in the United States	18	541
moral	9	629
national systems of	9	631
negro	20	52
of blind	4	82
children	9	678
of deaf children	9	676
of feeble-minded or mental defectives	9	688
of immigrants	9	670
of physically handicapped	9	675
of women	9	692
	11	191
	15	497
professional	9	637
psychology of	9	640
religious	23	350
rural	9	642
secondary	9	646
secretarial	24	518
study of	9	656
supplemental	26	46
technical	9	662
theological	9	664
Jewish	9	665
theological, Latin America	17	12
theological, Protestant	9	666

General — cont'd	Vol.	Page
Education, theological, Roman Catholic...	9	665
United States Bureau of	9	667
Systems of:		
Alabama	1	302
Alaska	1	317
Alberta	5	370
Argentina	2	209
Arizona	2	252
Arkansas	2	258
Austria-Hungary.	2	624
	9	634
Australia	2	591
Bavaria	3	354
Belgium	3	459
	9	635
Bolivia	4	186
Brazil	4	432
British Columbia	5	371
California	5	210
Canada	5	379
Ceylon	6	237
China	6	335
Colombia	7	280
Colorado	7	320
Connecticut	7	529
Costa Rica.....	8	42
Cuba	8	284
Delaware	8	611
Denmark	8	681
	9	634
Federated Malay States	11	87
Finland	11	224
Florida	11	373
France	9	631
	11	642
Georgia	12	486
Germany	9	633
	12	548
Great Britain...	9	632
	13	220
Greece	13	378
Hawaii	14	2
Hungary	14	503
Idaho	14	657
Illinois	14	683
India	15	10
	15	20
Indiana	15	35
Iowa	15	298
Ireland	9	632
	11	198
Italy	9	635
	13	310
	15	489
Japan	15	665
Java	15	776
Kansas	16	295
Kentucky	16	368
Latin America..	9	636
	17	9
Louisiana	17	682
Maine	18	147
Manitoba	5	368
	18	224
Maritime Provinces, Canada.	5	398
Maryland	18	355
Massachusetts ..	18	405
Mexico	18	760
Michigan	19	25
Minnesota	19	204
Mississippi	19	244
Missouri	19	256
Montana	19	391
Nebraska	20	28
Netherlands	9	635
Nevada	20	107
New Brunswick.	5	309

General — cont'd	Vol.	Page
Newfoundland..	20	252
New Hampshire.	20	130
New Jersey.....	20	140
New Mexico....	20	150
New South Wales	20	162
New York.....	20	195
	25	521
New Zealand....	20	252
Nicaragua	20	305
North Carolina..	20	415
North Dakota...	20	422
Norway	9	635
	20	439
Nova Scotia....	5	369
Ohio	20	613
Oklahoma	20	638
Ontario	5	373
	5	566
Oregon	20	780
Oriental countries	9	636
Panama	21	230
Pennsylvania ..	21	525
Peru	21	647
Porto Rico	22	403
Prairie Provinces (Canada)	5	389
Prince Edward Island	5	369
	5	376
	5	382
Punjab	23	21
Quebec	5	368
	23	72
Rhode Island...	23	467
Rumania	23	766
Russia	24	36
Samoan Islands.	24	223
Saskatchewan ..	5	370
	24	309
Scotland	13	309
	24	432
Serbia	24	580
Siam	24	765
South Carolina..	25	292
South Dakota...	25	300
Spain	9	635
	25	827
Sweden	9	634
	26	117
Switzerland	9	635
	26	147
Syria	26	188
Tennessee	26	424
Texas	26	463
United States...	9	682
in relation to other countries	9	636
Venezuela	27	730
Vermont	28	21
Virginia	28	119
Wales	13	308
Washington	28	784
West Virginia ..	29	212
Wisconsin	29	422
Wyoming	29	586
See also **National Systems of Education.**		
Educational associations	9	696
Educational code, Japanese	15	666
periodicals	9	701
propaganda	22	772
value of music.....	19	631
Eighteenth century education	10	34
Elective courses.....	10	68
studies	10	68
Elementary schools	9	608
	22	776

General — cont'd	Vol.	Page
schools, Japan	15	668
Ely lectures.....	17	214
English universities.....	13	307
Ergograph, the.....	10	473
Evangelical revival of the eighteenth century, English	13	305
Evening schools.....	10	595
Examinations	24	388
Exposition, Industrial..	10	660
Extension work in home economics	26	46
work of normal schools	26	46
Exposition, industrial...	10	660
Fagging	10	710
Fellowship	11	105
Fernley lectures.....	17	213
Finger notation.....	11	221
Fire Prevention League.	11	243
Flag Day.....	11	309
raising	11	315
Flogging	11	360
Ford English school....	24	388
Forest schools.....	11	470
Four-term year.....	26	13
Gakusei (Japan).....	15	666
Gary plan.....	9	612
General Education Board (United States).....	12	374
George Shepherd lectures	17	215
German schools	12	552
university system...	12	548
Gifford lectures.....	12	647
Belgium	17	214
Girl-schools, German...	12	553
Gowns	8	50
Government aid to higher education.....	9	619
Graded school village...	22	773
Grammar schools.....	9	646
	13	119
Gymnasia, German.....	13	587
Hale lectures.....	17	214
Harvard union.....	13	747
Haskell lectureship.....	17	214
Health education.....	14	28
Hibbert lectures.....	17	214
Higher commercial education	9	599
education	9	650
Japanese	15	671
education of women, British	13	310
High schools.....	14	178
girls, Japanese....	15	670
Japanese	15	671
Home economics.....	14	333
education	26	48
Honor system.....	25	753
Hoods	8	51
Housekeeping trade schools, German.....	26	756
Hulsean lectures.....	17	213
Illiteracy	12	581
	14	697
	14	715
in the United States.	9	688
Imitation	14	708
Immigrants, education of.	9	670
Imperial universities, Japan	15	671
Industrial, education Austrian	26	762
art schools, Swiss...	26	762
continuation courses	15	108
education	18	241
	26	754
	28	160
schools	15	673
schools for boys, Belgian	26	758

General — cont'd	Vol.	Page
vocational training..	9	611
workers, education and training of....	15	105
	15	106
Ingersoll lectureship....	17	214
Ingham lectures.....	17	215
Inspection of schools...	24	395
Institutes, British.....	13	307
Instruction, higher, Italian	15	494
in sex hygiene.....	24	396
intermediate, Italian	15	494
pedagogic, Italian..	15	494
primary, Italian....	15	493
Intercollegiate Bureau of Academic Costume.	8	51
Interest	15	214
International exchanges.	25	133
Itinerant trade courses, German	26	757
Japanese students in America	15	746
John Bohlen lectureship	17	214
Kindergarten	16	416
Kindergartens, Japanese	15	669
Land grant colleges.....	9	593
Lantern slides, method of making.....	16	737
Latin American universities	17	11
Law, American schools of	17	129
Lectureships, endowed..	17	213
Licence degree.....	11	644
Lowell lectures.....	17	214
Lycée	11	643
	17	768
Lyceum	17	768
Manual alphabet.....	18	240
apprenticeship school (France)...	26	759
training	18	240
	26	255
	26	758
	28	160
training high school of the United States	26	755
training school.....	26	754
Master of arts.....	18	417
Materials of study and organization of nature study	19	776
Medical education.....	9	623
Medical education in the United States...	18	541
inspection	14	29
Meadenhall lectures.....	17	214
Merrick lectureship.....	17	214
Middle schools, Japan..	15	670
Mining schools.....	19	181
Mixed schools, British..	13	307
Modern American museums	19	621
Modern development of nature study.....	19	775
Modern European museums	19	621
Modern shorthand work, first	24	749
Montessori system.....	16	420
	19	404
Morrill Act for support of agricultural colleges	9	594
Municipal colleges and universities	19	573
Municipal university....	9	621
Museum of Ptolemy Soter at Alexandria...	19	619
Museums	19	619
Music, education in.....	19	636

General — cont'd	Vol.	Page
training, need for early	19	632
Nathaniel William Taylor lectures.....	17	214
National Defense Act of 1916, educational provisions of.....	9	623
National development and education.....	9	672
National Education Association	19	731
National Flag Day Society	11	309
National systems of education	9	631
National Teachers' Association	9	697
Natural history.....	19	768
Nature study.....	19	774
Nautical schools.....	15	673
Nautical training schools	19	782
Negro education	20	52
New pedagogy.....	9	610
Night schools.....	10	595
Normal schools.....	9	657
	26	310
Norman W. Harris lectures	17	214
Object teaching.....	20	542
Official colors.....	8	51
Ollendorf's system.....	20	667
Open-air schools.....	14	29
Organized science schools	13	307
Painting, education in..	21	114
Palæstra (Greece).....	21	134
Parent-teachers' Associations	9	614
Parish schools, Roman Catholic	6	88
	21	321
Parochial and private schools	6	88
	9	687
Part-time	26	754
Pedagogics, Italian schools of.....	15	495
Pedagogy, New.....	9	610
Photography and the teaching of science....	22	6
Physically handicapped, education of the.....	9	675
Pianoforte instruction..	22	59
Polytechnics	26	763
Polytechnique	22	336
Popular education.....	22	769
Precocity	22	526
President	22	546
Primary education, Canada	5	361
Primary education, Japanese	15	668
United States...	9	608
instruction, French .	11	645
Primary schools, Russian	24	36
Privat-docent (Germany)	22	611
Private education, France	11	644
schools	22	611
Prix De Rome.....	22	614
Problem of military education	9	623
Problems in elementary education	9	612
Proctor	22	632
Professional education..	9	637
Professional instruction, French	11	645
schools	9	622
Provost	22	711
Public library and popular education.....	22	769

General — cont'd	Vol.	Page
Public schools.....	13	306
	22	774
Reading	28	144
Reading courses.....	26	49
Real gymnasia.....	13	587
Reference and research bureaus	23	298
Regents	23	320
	27	590
Regius professors.....	23	324
Retardation of pupils...	23	428
Rhodes scholarships....	21	78
	23	472
	23	474
Rural schools.....	9	608
Saint Giles lectures on comparative religion	17	215
Margaret's lectures..	17	215
Salesmanship classes....	26	754
Sanitation	9	613
School gardens	24	390
School savings systems.	24	392
work of museums..	19	620
School superintendent, development of the office of	9	605
Schools, Bible in.....	24	303
common	7	415
continuation	24	394
evening	10	595
for blind and dumb, Japan	15	669
for unskilled laborers	24	388
inspection of.....	24	395
instruction in sex hygiene	24	396
night	10	595
of agriculture and mechanic arts.....	26	319
of art, British.....	13	307
Schweich lectures	17	214
Secondary education ...	9	646
English	13	306
French	11	643
Japanese	15	670
Secretarial education ...	24	518
Sex hygiene, instruction in	24	396
Sex problem in elementary education	9	609
Shorthand	24	746
Sizar	25	64
Sloyd work.....	18	240
Smith-Hughes Bill	9	596
	9	629
Social centres	9	614
Social life at the universities	25	525
Spelling	28	144
State school system.....	25	521
State universities.....	25	522
range of instruction	25	524
Stone lectures.....	17	214
Student life and customs	25	750
Student self-government	25	753
Studies, elective.....	10	68
Study clubs	26	47
Suggestive imitation....	14	708
Summer sessions.....	26	13
Superior continuation school training in Europe	15	107
education, French...	11	644
Supplemental education.	26	46
Teachers' employment agencies	26	316
Teachers, professional training of.....	26	310
schools of, Italian..	15	495

General — cont'd	Vol.	Page
Technical education	9	662
Technical instruction,		
French	11	645
school	26	754
schools	9	622
British	13	307
German	26	757
Italian	15	494
Japanese	15	673
training in architecture	2	184
Technology, schools of	26	319
Trade apprentice schools	24	388
classes for girls	26	761
continuation schools,		
Austrian	26	762
courses abroad,		
length of	26	755
education for girls,		
Italy	26	763
housekeeping schools,		
Belgium	26	758
instruction, Belgium	26	757
instruction features	26	757
instruction for		
women, Swiss	26	762
schools	26	754
Austrian	26	761
Belgian	26	757
English	26	762
French	26	759
German	26	755
Italian	26	763
Swiss	26	762
United States	26	760
Training schools for		
girls, English	26	760
Tripos	27	76
Tutor	27	212
Universities, British	13	309
Latin-American	17	6
municipal	9	621
	19	573
Russian	24	36
University	27	574
entrance requirements	27	576
extension systems	26	46
graduate work	27	577
institutes, Italian	15	495
of Michigan, extension service	26	48
statistics	27	577
Urban schools	9	609
Visible speech	3	472
	28	135
Visual instruction	28	142
Vocational education	26	754
	28	160
guidance	28	161
Voice and voice culture	28	165
War, European, and		
education	9	688
Welfare work of university extension	26	46
William Belden Noble		
lectures	17	214
Women, education of	9	692
	11	191
	15	497
Wrangler, Senior	29	565
Writing	29	572
Yale lectures	17	214
Yerkes-Bridges Point		
Scale	9	642

Administration

Administration — cont'd	Vol.	Page
Academic diploma	9	140
	24	389
Administration of public education	25	520
Administration of rural		
schools	9	643
Bursar	5	67
Bursary	5	67
Chancellor, university	6	278
Class methods	26	316
College Entrance Examination Board	7	260
College entrance requirements	7	259
Collegiate pensions	21	549
Collegiate system at Oxford	21	75
Commissioners of Intermediate Education, British	13	310
Compulsory attendance, United States	25	520
Consolidation of rural schools	9	645
Consolidation of schools	5	364
	7	549
Continuation school purposes	24	395
Continuation schools	7	590
	24	394
Continuous session plan	26	13
County board of education	25	522
County superintendents	22	776
County system of school administration	22	776
Courses of study	9	604
Courses of study, Canadian	5	365
	5	367
Curriculum	8	314
Curriculum of secondary schools, British	13	307
Department of Agriculture and Technical Instruction, Ireland	13	310
Development of the public school curriculum	22	777
Diploma	9	140
Educational administration, Japanese	15	667
Educational organization, United States	9	686
system of France	11	642
Education Board, General	9	668
	12	374
compulsory	9	599
courses of study in	9	604
development of the office of school superintendent	9	605
municipal provision for	19	582
national systems of	9	631
United States Bureau of	9	667
General Education Board	9	668
	12	374
Graded school village	22	773
Indian contract schools	15	63
day schools	15	62
non-reservation boarding schools	15	63
reservation boarding schools	15	62
schools of to-day	15	62
Junior high school	22	773
Lesson plans	26	317
Minister of Public Instruction	11	643
Morrill Act (United States)	25	523
Normal school requirements	26	313

Administration — cont'd	Vol.	Page
schools, Japanese	15	674
Ober-realschulen, German	12	555
Organization and administration of State universities	25	524
Practice departments	26	313
Preliminary certificate	24	389
Primary education, Canada	5	361
inspectors, France	11	643
schools, Russia	24	36
	5	366
Public school curriculum, development of	22	777
Public school housing	22	776
school organization	22	778
school, salaries	22	775
school system	22	774
school, systems of administration	22	776
school-township system	22	773
Qualifications of teachers	25	520
Question and answer method	26	317
Resources and revenues	25	523
School budget	24	388
continuation	24	394
corporation	24	388
examinations	24	388
inspection, Canada	5	364
inspection of	24	395
principal	22	773
superintendent	22	773
Sex problem	9	609
of the teaching force	22	777
State school system	25	521
Superintendents	22	776
systems of education	25	518
State universities, organization and administration of	25	524
Syllabus, Bible study, United States	24	394
Teachers' institutes	26	315
Teachers' institutes, Canada	5	364
pensions	21	549
Teachers, professional training of	26	310
qualifications of	25	520
Teaching methods, United States	26	316
systems	26	316
Textbook and oral teaching	9	609
Town board of education	25	521
Trained teachers	9	608
Training of teachers, Canada	5	364
Tripos examinations	5	252
United States Training Service	15	109
Units of school organization	22	773
University, course of study, United States	27	576
organization	9	621
University system, German	12	548
work	9	621
Urban schools	9	609

History

	Vol.	Page
Academy	1	62
Act	1	105
Agricultural Experiment Station	23	26
Alabama, education in	1	302
Alaska, education in	1	317

History — cont'd	Vol.	Page
Alberta, education in...	5	370
American braille.....	4	85
college	1	503
university	1	567
Argentina, education in.	2	209
Arizona, education in...	2	252
Arkansas, education in..	2	258
Australia, education in.	2	591
	23	82
Austria-Hungary, education in.....	2	624
Bavaria, education in...	3	354
Belgium	8	459
	9	635
Blind, education of.....	4	82
	9	178
Bolivia, education in....	4	186
Bologna, education in..	4	194
Brazil, education in....	4	432
British Columbia, education in	5	371
British education	13	304
Buenos Aires, education in	4	686
California, education in.	5	210
Catholic education, Canada	5	379
in the United States.	6	88
Catholic male colleges and universities.....	6	91
Ceylon, education in....	6	237
Chantry Act of 1547....	13	304
Chautauqua societies ...	6	367
	17	770
Chautauqua, Jewish....	6	368
Child training, Jewish..	16	116
China, educational progress in.....	6	535
first Christian Protestant school in...	4	611
Colleges, first American.	9	618
Colonial beginnings of public school evotion	22	774
colleges	9	619
Colorado, education in..	7	320
Connecticut, education in	7	529
Correspondence schools.	8	19
Correspondence University	8	19
Costa Rica, education in	8	42
Cowper-Temple Clause..	13	305
Cuba, education in.....	8	284
Delaware, education in.	8	611
Des Moines, education in	9	12
Detroit, education in...	9	30
Diploma, first medical, issued in America....	2	167
Dublin, education in....	9	370
University Defense Committee	13	310
Duluth, education in....	9	392
Education Act, Great Britain	13	306
of 1872, Scottish....	13	232
of 1902, Great Britain	13	308
Educational institutions and research facilities in Washington.....	19	743
Education and national development, American	9	672
British	13	220
engineering	9	615
French	11	642
history of.....	9	624
in the 16th century.	22	239
in the United States.	9	682
Jewish, in Biblical times	16	115
Jewish, in the Rabbinical Era	16	115
Mexican	18	760
national systems of.	9	631
Scottish	13	231
Swedish	26	117
of women.....	9	692
Elementary Education Act, Great Britain.	13	305
education in England	13	304
Encænia or Encenia....	10	314
Endowed school acts, Great Britain.....	10	323
	13	306
Federated Malay States, education in	11	87
Finland, education in...	11	224
Florida, education in...	11	373
Foreign textile schools..	26	477
French braille.....	4	85
Georgia, education in...	12	486
Greece, education in....	13	378
Greek, definite introduction of, into Italy.....	14	487
Harvard University....	13	745
Hawaii, education in...	14	2
Hedge schools.....	13	310
High school, development of.....	14	178
	22	778
Hungary, education in..	14	503
Idaho, education in.....	14	657
Illinois, education in...	14	683
Imperial rescript, Japan	15	666
University (France).	11	643
India, education in.....	15	10
	15	20
Indiana, education in..	15	35
Indians, Catholic education of.....	15	60
education of.....	15	61
Iowa, education in.....	15	298
Ireland, education in...	11	198
	13	310
	15	314
Irish schools and schoolmen of the Middle Ages	15	355
Italy, education in.....	15	489
Japan, education in.....	15	665
Java, education in.....	15	756
Kansas, education in...	16	295
Kentucky, education in.	16	368
Khalsa	23	22
Lætare Medal.....	20	459
Latin America, education in.....	17	9
Lectureships, endowed..	17	213
Local Government Act (British)	13	306
Local Taxation Act (British)	13	306
Louisiana, education in.	17	682
Lyceum	17	768
Lyceum movement.....	17	770
reconstruction	17	769
Maine, education in....	18	147
Manila, University of...	18	216
Manitoba, education in.	5	368
school question.....	18	224
Maritime provinces, Canada, education in.....	5	388
Maryland, education in.	18	355
Massachusetts, education in	18	403
Medical education.....	18	538
of women.....	18	544
Medical pedagogy.....	18	561
Mexico, education in....	18	760
Michigan, education in..	19	25
Minnesota, education in.	19	204
Montana, education in..	19	391
Mississippi, education in	19	244
Missouri, education in..	19	256
Mosely Commissions....	19	497
National Civic Federation	19	727
Education Association	19	731
Society for Vocational Education..	19	742
University (United States)	19	743
Nebraska, education in.	20	28
Negro education.....	20	50
Nevada, education in...	20	107
New Brunswick, education in.....	5	369
New England primer...	20	121
theology	20	122
New Hampshire, education in.....	20	130
New Jersey, education in	20	140
New Mexico, education in	20	150
New South Wales, education in.....	20	162
New York City, education in.....	20	221
New York State, education in.....	20	195
	25	521
Newfoundland, education in	20	270
New Zealand, education in	20	252
Nicaragua, education in.	20	305
Normal school, first....	26	313
North Carolina, education in.....	20	415
North Dakota, education in	20	422
Norway, education in...	20	439
Nova Scotia, education in	5	369
first school in.....	17	679
Ohio, education in.....	20	613
Oklahoma, education in.	20	638
Ontario, education in...	5	373
	5	566
Oregon, education in...	20	780
Panama, education in..	21	230
Pandit	23	16
Peabody Education Fund	21	440
Pennalism	21	516
Pennsylvania, education in	21	525
Peru, education in.....	21	647
Philadelphia, education in	21	730
Porto Rico, education in.	22	403
Prairie provinces, Canada, education in....	5	389
Prince Edward Island, education in.....	5	369
	5	376
	5	382
	22	582
Princeton University....	9	618
	22	586
Public schools, Revolutionary Period.....	22	775
Pueblo, education in....	22	767
Pundit	23	16
Punjab, education in...	23	21
Quebec, education in...	5	368
	23	72
Rabbis as educators....	16	116
Ragged schools, British	15	98
	23	133

General — cont'd	Vol.	Page
Technical education	9	662
Technical instruction,		
French	11	645
school	26	754
schools	9	622
British	13	307
German	26	757
Italian	15	494
Japanese	15	673
training in architecture	2	184
Technology, schools of	26	319
Trade apprentice schools	24	388
classes for girls	26	761
continuation schools,		
Austrian	26	762
courses abroad,		
length of	26	755
education for girls,		
Italy	26	763
housekeeping schools,		
Belgium	26	758
instruction, Belgium	26	757
instruction features	26	757
instruction for		
women, Swiss	26	762
schools	26	754
Austrian	26	761
Belgian	26	757
English	26	762
French	26	759
German	26	755
Italian	26	763
Swiss	26	762
United States	26	760
Training schools for		
girls, English	26	760
Tripos	27	76
Tutor	27	212
Universities, British	13	309
Latin-American	17	6
municipal	9	621
	19	573
Russian	24	36
University	27	574
entrance requirements	27	576
extension systems	26	46
graduate work	27	577
institutes, Italian	15	495
of Michigan, extension service	26	48
statistics	27	577
Urban schools	9	609
Visible speech	3	472
	28	135
Visual instruction	28	142
Vocational education	26	754
	28	160
guidance	28	161
Voice and voice culture	28	165
War, European, and		
education	9	688
Welfare work of university extension	26	46
William Belden Noble		
lectures	17	214
Women, education of	9	692
	11	191
	15	497
Wrangler, Senior	29	565
Writing	29	572
Yale lectures	17	214
Yerkes-Bridges Point		
Scale	9	642

Administration

Administration — cont'd	Vol.	Page
Academic diploma	9	140
	24	389
Administration of public education	25	520
Administration of rural		
schools	9	643
Bursar	5	67
Bursary	5	67
Chancellor, university	6	278
Class methods	26	316
College Entrance Examination Board	7	260
College entrance requirements	7	259
Collegiate pensions	21	549
Collegiate system at Oxford	21	75
Commissioners of Intermediate Education, British	13	310
Compulsory attendance, United States	25	520
Consolidation of rural schools	9	645
Consolidation of schools	5	364
	7	549
Continuation school purposes	24	395
Continuation schools	7	590
	24	394
Continuous session plan	26	13
County board of education	25	522
County superintendents	22	776
County system of school administration	22	776
Courses of study	9	604
Courses of study, Canadian	5	365
	5	367
Curriculum	8	314
Curriculum of secondary schools, British	13	307
Department of Agriculture and Technical Instruction, Ireland	13	310
Development of the public school curriculum	22	777
Diploma	9	140
Educational administration, Japanese	15	667
Educational organization, United States	9	686
system of France	11	642
Education Board, General	9	668
	12	374
compulsory	9	599
courses of study in	9	604
development of the office of school superintendent	9	605
municipal provision for	19	582
national systems of	9	631
United States Bureau of	9	667
General Education Board	9	668
	12	374
Graded school village	22	773
Indian contract schools	15	63
day schools	15	62
non-reservation boarding schools	15	63
reservation boarding schools	15	62
schools of to-day	15	62
Junior high school	22	773
Lesson plans	26	317
Minister of Public Instruction	11	643
Morrill Act (United States)	25	523
Normal school requirements	26	313

Administration — cont'd	Vol.	Page
schools, Japanese	15	674
Ober-realschulen, German	12	555
Organization and administration of State universities	25	524
Practice departments	26	313
Preliminary certificate	24	389
Primary education, Canada	5	361
inspectors, France	11	643
schools, Russia	24	36
	5	366
Public school curriculum, development of	22	777
Public school housing	22	776
school organization	22	773
school, salaries	22	775
school system	22	774
school, systems of administration	22	776
school-township system	22	773
Qualifications of teachers	25	520
Question and answer method	26	317
Resources and revenues	25	523
School budget	24	388
continuation	24	394
corporation	24	388
examinations	24	388
inspection, Canada	5	364
inspection of	24	395
principal	22	773
superintendent	22	773
Sex problem	9	609
of the teaching force	22	777
State school system	25	521
Superintendents	22	776
systems of education	25	518
State universities, organization and administration of	25	524
Syllabus, Bible study, United States	24	394
Teachers' institutes	26	315
Teachers' institutes, Canada	5	364
pensions	21	549
Teachers, professional training of	26	310
qualifications of	25	520
Teaching methods, United States	26	316
systems	26	316
Textbook and oral teaching	9	609
Town board of education	25	521
Trained teachers	9	608
Training of teachers, Canada	5	364
Tripos examinations	5	252
United States Training Service	15	109
Units of school organization	22	773
University, course of study, United States	27	576
organization	9	621
University system, German	12	548
work	9	621
Urban schools	9	609

History

Academy	1	62
Act	1	105
Agricultural Experiment Station	23	26
Alabama, education in	1	302
Alaska, education in	1	317

History — cont'd	Vol.	Page
Alberta, education in...	5	370
American braille.....	4	85
college	1	503
university	1	567
Argentina, education in.	2	209
Arizona, education in...	2	252
Arkansas, education in..	2	258
Australia, education in.	2	591
	23	82
Austria-Hungary, education in.....	2	624
Bavaria, education in...	3	354
Belgium	3	459
	9	635
Blind, education of.....	4	82
	9	178
Bolivia, education in....	4	186
Bologna, education in..	4	194
Brazil, education in....	4	432
British Columbia, education in	5	371
British education	13	304
Buenos Aires, education in	4	686
California, education in.	5	210
Catholic education, Canada	5	379
in the United States.	6	88
Catholic male colleges and universities.....	6	91
Ceylon, education in....	6	237
Chantry Act of 1547....	13	304
Chautauqua societies ...	6	367
	17	770
Chautauqua, Jewish....	6	368
Child training, Jewish..	16	116
China, educational progress in.....	6	535
first Christian Protestant school in...	4	611
Colleges, first American.	9	618
Colonial beginnings of public school evolution	22	774
colleges	9	619
Colorado, education in..	7	320
Connecticut, education in	7	529
Correspondence schools.	8	19
Correspondence University	8	19
Costa Rica, education in	8	42
Cowper-Temple Clause..	13	305
Cuba, education in.....	8	284
Delaware, education in.	8	611
Des Moines, education in	9	12
Detroit, education in...	9	30
Diploma, first medical, issued in America....	2	167
Dublin, education in....	9	370
University Defense Committee	13	310
Duluth, education in....	9	392
Education Act, Great Britain	13	306
of 1872, Scottish....	13	232
of 1902, Great Britain	13	308
Educational institutions and research facilities in Washington.....	19	743
Education and national development, American	9	672
British	13	220
engineering	9	615
French	11	642
history of.....	9	624
in the 16th century.	22	239
in the United States.	9	682
Jewish, in Biblical times	16	115
Jewish, in the Rabbinical Era	16	115
Mexican	18	760
national systems of.	9	631
Scottish	13	231
Swedish	26	117
of women.....	9	692
Elementary Education Act, Great Britain.	13	305
education in England	13	304
Encænia or Encenia....	10	314
Endowed school acts, Great Britain.....	10	323
	13	306
Federated Malay States, education in	11	87
Finland, education in...	11	224
Florida, education in...	11	373
Foreign textile schools..	26	477
French braille.....	4	85
Georgia, education in...	12	486
Greece, education in....	13	378
Greek, definite introduction of, into Italy.....	14	487
Harvard University....	13	745
Hawaii, education in...	14	2
Hedge schools.....	13	310
High school, development of.....	14	178
	22	778
Hungary, education in..	14	503
Idaho, education in.....	14	657
Illinois, education in...	14	683
Imperial rescript, Japan	15	666
University (France).	11	643
India, education in.....	15	10
	15	20
Indiana, education in..	15	35
Indians, Catholic education of.....	15	60
education of.....	15	61
Iowa, education in.....	15	298
Ireland, education in...	11	198
	13	310
	15	314
Irish schools and schoolmen of the Middle Ages	15	355
Italy, education in.....	15	489
Japan, education in.....	15	665
Java, education in.....	15	756
Kansas, education in...	16	295
Kentucky, education in.	16	368
Khalsa	23	22
Lætare Medal.....	20	459
Latin America, education in.....	17	9
Lectureships, endowed..	17	213
Local Government Act (British)	13	306
Local Taxation Act (British)	13	306
Louisiana, education in.	17	682
Lyceum	17	768
Lyceum movement.....	17	770
reconstruction	17	769
Maine, education in....	18	147
Manila, University of...	18	216
Manitoba, education in.	5	368
school question.....	18	224
Maritime provinces, Canada, education in.....	5	388
Maryland, education in.	18	355
Massachusetts, education in	18	403
Medical education.....	18	538
of women.....	18	544
Medical pedagogy.....	18	561
Mexico, education in....	18	760
Michigan, education in..	19	25
Minnesota, education in.	19	204
Montana, education in..	19	391
Mississippi, education in	19	244
Missouri, education in..	19	256
Mosely Commissions....	19	497
National Civic Federation	19	727
Education Association	19	731
Society for Vocational Education..	19	742
University (United States)	19	743
Nebraska, education in.	20	28
Negro education.....	20	50
Nevada, education in...	20	107
New Brunswick, education in.....	5	369
New England primer...	20	121
theology	20	122
New Hampshire, education in.....	20	130
New Jersey, education in	20	140
New Mexico, education in	20	150
New South Wales, education in.....	20	162
New York City, education in.....	20	221
New York State, education in.....	20	195
	25	521
Newfoundland, education in	20	270
New Zealand, education in	20	252
Nicaragua, education in.	20	305
Normal school, first....	26	313
North Carolina, education in.....	20	415
North Dakota, education in	20	422
Norway, education in...	20	439
Nova Scotia, education in	5	369
first school in.....	17	679
Ohio, education in.....	20	613
Oklahoma, education in.	20	638
Ontario, education in...	5	373
	5	566
Oregon, education in...	20	780
Panama, education in..	21	230
Pandit	23	16
Peabody Education Fund	21	440
Pennalism	21	516
Pennsylvania, education in	21	525
Peru, education in.....	21	647
Philadelphia, education in	21	730
Porto Rico, education in.	22	403
Prairie provinces, Canada, education in....	5	389
Prince Edward Island, education in.....	5	369
	5	376
	5	382
	22	582
Princeton University....	9	618
	22	586
Public schools, Revolutionary Period.....	22	775
Pueblo, education in....	22	767
Pundit	23	16
Punjab, education in...	23	21
Quebec, education in...	5	368
	23	72
Rabbis as educators....	16	116
Ragged schools, British	15	98
	23	133

History — cont'd	Vol.	Page
Randolph-Macon system of colleges and academies	23	210
Woman's College	23	210
Reference and research bureaus	23	298
Reformed Church of America, board of education	23	308
Religious education	23	350
in the family	23	353
Revised Code, British	13	305
Rhode Island, education in	23	467
Rhodes bequest	13	308
scholarships	23	474
Royal Commission, Canada, objects of	5	378
on Industrial and Technical Education, Canada	5	377
Rumania, education in	23	766
Russia, education in	24	36
Rutgers College	9	619
	24	65
Samoan Islands, education in	24	223
San Antonio, education in	24	231
San José educational institutions	24	241
Saskatchewan, education in	5	370
	24	309
School research bureaus	23	298
Scotland, education in	13	309
	24	432
Secretarial education, history of	24	518
Serbia, education in	24	580
Siam, education in	24	765
Slater Fund	25	84
South Carolina, education in	25	292
South Dakota, education in	25	300
Spain, education in	25	327
State universities	25	522
Summer schools, history of	26	13
Switzerland, education in	26	147
Syracuse, education in	26	182
Syria, education in	26	188
Tacoma, education in	26	205
Tennessee Centennial Exposition	26	432
Tennessee, public school system of	26	424
Terre Haute, education in	26	446
Texas, education in	26	463
Textile schools, foreign	26	477
Thirteenth Century, attendance at the universities	26	559
canon Law	26	559
discipline	26	559
education	26	558
feminine education	26	560
graduate schools	26	559
teachers	26	560
technical training	26	561
Trenton, education in	27	45
Twentieth Century, education in	27	224
United States, education in	9	682
Universities Act of 1889, Scottish	13	232
University (Scotland) Act of 1858	13	232

History — cont'd	Vol.	Page
extension, British	13	308
extension movement	8	19
Venezuela, education in	27	730
Vermont, education in	28	21
Virginia, education in	28	119
Vocational motive	18	241
Wales, education in	13	308
Washington State, education in	28	784
Welsh Intermediate Education Act	13	309
West Virginia, education in	29	212
Whitworth scholarships	29	288
William and Mary College	29	337
Wisconsin, education in	29	422
Women in medicine	18	563
World's Columbian Exposition	29	557
Wyoming, education in	29	536
Yale University	9	618
	29	607

Equipment

Children's libraries	6	488
Children's literature	6	490
Housing and equipment of public schools	22	776
Modern gymnasium	22	33
Photography in its relation to education	22	6
Playground equipment	6	495
Playgrounds	6	495
Projection lantern	22	6
Public school equipment	22	776
Sanitation	9	613
School gardens	24	390
Theatres	6	496

Physical

Anæmic children	14	30
Children, anæmic	14	30
defective	6	470
delinquent	6	472
diseases of	6	477
neglected	6	483
spirit of modern legislation affecting	6	485
Compulsory health education statutes	14	32
Educational athletics	9	700
Exercise, physical	10	637
German gymnastics	22	31
Health education	14	28
examination	14	31
instruction	14	31
Medical inspection	14	31
Oral hygiene	14	29
	14	30
Physical training	14	29
	22	31
Professional training of teachers	22	33
Public health	22	758
Schools, instruction in sex hygiene in	24	396
Triple test	22	34
Tubercular children	14	30

Institutions

UNITED STATES

Institutions — cont'd	Vol.	Page
Adelbert College	1	135
Adelphi College	1	135
Adrian College	1	154
Agnes Scott College	9	693
Agricultural College of Pennsylvania	1	247
Agricultural colleges	1	246
Alabama Polytechnic Institute	1	307
Alabama, University of	27	578
Albany Medical College	18	543
Albion College	1	338
Allegheny College	1	410
Alma College	1	429
American College at Constantinople	23	565
College at Louvain	6	88
American College in Rome	1	510
Institute of Instruction	1	522
Amherst College	1	571
Amos Tuck School of Administration and Finance	8	483
Antioch College	2	35
	7	263
Arizona, University of	2	255
Arkansas, Schools of	2	258
University of	2	260
Armour Institute of Technology	2	279
Art, Metropolitan Museum of	2	345
Students' League of New York	2	346
Atlanta University	2	503
Auburn Theological Seminary	2	532
Augsburg Seminary	2	541
Augustana College and Theological Seminary	2	544
Baker University	3	62
Barnard College	3	264
	9	694
Barnum's Museum	19	619
Bates College	3	330
Baylor University	3	366
Beloit College	3	494
Benedict College	3	507
Berea College	3	539
Bethany College	3	590
Boston Museum	19	619
Boston Society of Natural History	19	622
Boston University	4	304
Bowdoin College	4	361
Brigham Young University	4	538
Brooklyn Polytechnic Institute	4	594
Brown University	4	613
Bryn Mawr College	4	650
Buchtel College	4	664
Bucknell University	4	669
Bussey Institute	5	75
Butler University	5	83
California, University of	5	217
Canisius College	5	501
Carleton College	5	617
Carnegie Desert Laboratory	5	634
Foundation	1	61
	5	636
Institute and Library	22	130
Institute of Pittsburgh	5	633
Institute of Technology	22	129
Institution	5	633
Institution of Washington	5	638
Technical Schools	5	638
	26	760
Case School of Applied Science	5	698
Castleton Medical School	18	542
Cathedral schools	6	57

Institutions — cont'd	Vol.	Page
Catholic colleges in Europe, American	6	88
Catholic seminaries	6	91
	6	100
Summer School of America	6	101
	22	240
University of America	6	101
Central College	6	208
University	6	212
University of Kentucky	6	212
Wesleyan College	6	213
Charleston (S. C.) Museum	6	330
	19	621
Chautauqua	6	367
Jewish	6	368
Chautauqua Summer School	26	14
Chicago Medical College	18	538
	18	544
Chicago, University of	6	444
Children's theatres	6	496
Christian Brothers College	6	602
Christian University	6	614
Cincinnati College	18	543
University of	6	684
Clark College, Massachusetts	7	208
University	7	262
University (Atlanta, Ga.)	7	45
University (Worcester, Mass.)	7	45
Clemson Agricultural College	7	87
Coe College	7	199
Colby College	7	234
Colgate University	7	250
College of the Christian Brothers	24	147
of the Holy Ghost	22	129
of New Jersey	11	226
of Physicians and Surgeons of the Western District of the State of New York	18	542
of The City of New York	7	254
of William and Mary in Virginia	17	130
of Wooster	7	261
Colleges for teachers	7	261
for women	7	263
of chiropody	22	270
land grant	7	261
Colorado, educational institutions of	7	320
Agricultural College	7	323
College	7	323
University of	7	322
Columbia University	7	337
	26	47
Columbian College	12	480
	18	542
Community institutes	26	47
Concordia College	7	464
Connecticut College for Women	7	532
	9	693
Cooper Union or Cooper Institute	7	688
Cornell College	7	711
University	1	248
	7	202
	7	711
Cotner University	8	58
County training schools	26	314
Crozer Theological Seminary	8	252
Cumberland University	8	299
Curry Normal and Industrial Institute	8	315
Dakota Wesleyan University	8	413
Dartmouth College	8	482
	9	619
Davidson College	8	505
Defiance College	8	587
Delaware College	8	614
Denison University	8	679
Denver, University of	8	700
De Paul University Academy	8	701
De Pauw University	8	701
	13	487
Des Moines College	9	12
Dickinson College	9	84
Drake University	9	308
Dramatic Arts, American Academy of	9	311
Drew Theological Seminary	9	332
Drexel Institute of Art, Science and Industry	9	333
Dropsie College	9	340
Drury College	9	355
Duquesne University	22	129
Earlham College	9	487
Elmira College	9	693
Elon College	10	265
Emma Willard Seminary	27	101
	29	327
Emory College	10	298
English High School of Boston	14	179
Episcopal Theological School	10	429
Episcopalian theological schools	22	685
Fairmount College	10	720
Fargo College	11	19
Field Columbian Museum	11	182
Findlay College	11	217
Fisk School for Freedmen	11	295
University	11	295
Florida Agricultural College	11	379
State College for Women	11	379
University of	11	379
Fordham University	11	467
Forest Park College	11	470
	24	147
Franklin College	12	16
and Marshall College	12	16
Park Zoo (Boston)	21	336
Friends University	12	108
Furman University	12	180
Geneva College	12	395
George Washington University	12	480
Georgetown College	12	482
University	12	482
Georgia School of Technology	12	490
University of	12	490
Girard College	12	664
Gore Hall	13	64
Goucher College	9	693
	13	82
Grant University	13	139
Gratz College	13	162
Grinnell College	13	480
University	13	480
Grove City College	13	497
Guilford College	13	535
Hamilton College	13	661
Hamline University	13	664
Hampden-Sidney College	13	668
	18	543
Hampton Normal and Agricultural Institute	13	669
Hanover College	13	688
Hartford School of Religious Pedagogy	23	352
Hartford Theological Seminary	7	508
	13	740
Harvard University	13	745
Law School	17	131
Medical School	18	539
Summer School	26	13
Haverford College	13	764
Heidelberg University (Ohio)	14	70
Hillsdale College	14	191
Hiram College	14	203
Hobart College	14	302
Hollins Institute	23	562
Holy Cross College	14	326
Homerton Undenominational Training College for Women	5	248
Hope College	14	371
Howard College	14	454
University	14	454
Hunter College	20	408
Idaho, University of	14	660
Illinois College	14	696
Illinois State Normal University	14	697
University of	14	694
Wesleyan University	14	697
Indian schools	15	32
Indiana Asbury University	8	701
University	15	38
	25	524
International Correspondence Schools	8	19
	26	49
Iowa College	13	480
State College of Agriculture and Mechanic Arts	15	302
State University of	15	302
Wesleyan College	15	302
Jacob Tome Institute	15	588
James Milliken University	15	608
Jeanes (Anna T.) Foundation	15	765
Jefferson College	18	542
Medical College	18	542
John B. Stetson University	16	166
Johns Hopkins Medical School	18	544
University	14	372
	16	166
Journalism, School of	16	222
Juniata College	16	249
Kansas State Agricultural College	16	303
State College	1	247
University of	16	298
Wesleyan University	16	303
Kentucky, State University	16	372
Kenyon College	16	373
King's College	7	337
	19	539
	27	580
Knox College	16	498
Lafayette College	16	649
La Grange College	16	575
Lake Erie College	9	698

Institutions — cont'd	Vol.	Page
Lake Forest University	16	659
Lander Female College	16	701
La Salle College	16	583
Lawrence University	17	150
Lawrenceville School	17	150
Leander Clark College	17	177
Lebanon Valley College	17	207
Lehigh University	17	258
Leland Stanford Junior University	17	275
Lick Observatory	17	402
Lick School of Mechanic Arts	26	760
Lincoln College	17	455
Memorial University	17	456
Lombard College	17	617
Louisiana State University	17	686
Lowell Institute	17	703
Loyola University	17	710
Luther College	17	755
McCormick Theological Seminary	18	29
McPherson College	18	80
Macalester College	18	6
Maine Literary and Theological Institution	7	234
University of	18	149
Manhattan College	18	214
Trade School for Girls	26	754
	26	760
Manila, University of	18	216
Marietta College	18	286
Marquette University	18	310
Marshall, College of	18	329
Martin Academy	9	213
Maryland Agricultural College	18	370
Maryville College	18	373
Massachusetts Agricultural College	1	247
	18	411
Institute of Technology	18	411
Mechanics' Institutes	18	525
Mechanics Institute, Rochester	23	591
Medical College:		
of Georgia	18	543
of Ohio	18	542
of Philadelphia	18	538
of South Carolina	18	542
Medical Department of Kings College	18	541
of the Philadelphia College	18	541
Medical School of Maine	18	542
of the University of Vermont	18	542
of the Valley of Virginia	18	543
of Willoughby University	18	543
Mellon Institute	22	129
Mercer University	18	656
Miami University	19	8
Michigan Agricultural College	1	247
	19	31
College of Mines	19	31
University of	19	29
Middlebury College	19	41
Milligan College	19	126
Millsaps College	19	129
Mills College	9	693
	19	129
Milton College	19	140
Milwaukee-Downer College	9	693
Minnesota, University of	19	207
Mississippi Agricultural and Mechanical College	1	247
	19	247
College	19	248
University of	19	247
Missouri, University of	19	260
Valley College	19	261
Monmouth College	19	362
Montana State College of Agriculture and Mechanic Arts	19	394
State Normal College	19	395
State School of Mines	19	394
State University	19	395
Moore's Hill College	19	435
Moravian Seminary and College for Women	19	442
Morningside College	19	466
Mount Holyoke College	19	526
Seminary	9	602
Mount Saint Mary's College	9	374
	19	527
Theological Seminary	6	100
	19	527
Mount Union College	19	527
Muhlenberg College	19	550
Museum of Comparative Zoology, Harvard University	19	622
of Princeton University	19	622
of Yale University	19	622
Museums	19	619
	26	49
Muskingum College	19	652
Nashville, University of	19	717
National Academy of Design	19	724
Association of Corporation Schools, The	19	724
Catholic Teachers' Institute	26	815
Museum	25	133
	27	555
Research Council	25	132
Nebraska, University of	20	33
Wesleyan University	20	34
Nevada, University of	20	110
New Hampshire College	20	134
New Mexico, College of Agriculture and Mechanic Arts	20	152
Normal University	20	152
University of	20	152
New Orleans University	20	160
Newton Theological Institution	20	293
New York Medical College	18	544
New York State, University of	27	580
Trade School	26	755
University	8	141
	20	242
University School of Pedagogy	7	262
University of the State of	20	238
Niagara University	6	100
	20	299
Normal Institute for Physical Education	13	589
North Carolina College of Agriculture and Mechanic Arts	20	419
North Carolina, University of	20	418
North Dakota Agricultural College	20	424
North Dakota, State University of	20	424
Northfield Conference and Summer Schools	20	429
Northwestern College	20	433
University	20	433
Norwich University	20	447
Notre Dame, University of	20	459
Oberlin College	7	263
	20	538
Collegiate Institute	7	201
Oglethorpe University	20	607
Ohio Northern University	20	621
State University	1	248
	20	622
University	20	623
Wesleyan University	20	623
Oklahoma Agricultural and Mechanical College	20	641
Oklahoma, University of	20	640
Oregon State Agricultural College	20	784
Oregon, University of	20	781
Ottawa University (Kansas)	21	47
Otterbein University	21	49
Ouachita College	21	50
Our Lady of Angels, Seminary of	21	52
Oxford College (Ohio)	21	73
Parish schools, Roman Catholic	21	321
Park College	21	325
Packer Collegiate Institute	21	91
Parsons College	21	352
Peabody College for Teachers	21	439
Peabody Museum of Salem	19	621
Penn College	21	516
Pennsylvania College	18	543
	21	536
Pennsylvania College of Gettysburg	21	536
Pennsylvania College for Women	21	537
	22	129
Pennsylvania State College	1	247
	21	539
	26	50
Pennsylvania, University of	21	535
Perkins Institute for the Blind	14	458
Philadelphia, Academy of Natural Sciences	21	732
Philadelphia Museum	19	619
	21	739
Philander Smith College	21	735
Philippines, University of	21	759
Phillips (Andover) Academy	21	765
Phillips (Exeter) Academy	21	766
Polytechnic College	22	335
Polytechnic Institute of Brooklyn	22	336
Pomona College	22	342
Porto Rico, University of	22	403
	22	406

Institutions — cont'd	Vol.	Page
Pratt Institute	22	513
Presbyterian College Board	22	539
Presbyterian College of South Carolina	22	539
Princeton Theological Seminary	22	586
University	5	63
	9	84
	22	586
Puget Sound, College of	22	796
Purdue University	23	26
Radcliffe College	9	694
	23	115
	23	210
Randolph-Macon College	23	210
Randolph-Macon College for Women	9	696
	23	210
Randolph-Macon System of Colleges and Academies	23	210
Ranken Mechanical Trades School	24	147
Reed College	22	396
Rensselaer Polytechnic Institute	23	380
	27	101
	27	673
Rhode Island School of Design	23	407
Rice Institute	23	487
Richmond College	23	507
Rio Grande College	23	532
Ripon College	23	536
Roanoke College	23	562
Robert College	3	400
	23	566
Rochester Theological Seminary	23	591
	23	598
Rochester, University of	27	579
Rockefeller Foundation	22	34
	23	598
Institute for Medical Research	22	45
	23	599
Rockford College	9	693
	23	600
Rollins College	23	638
Rose Polytechnic Institute	23	694
Rush Medical College	23	780
Russell Sage Foundation	22	34
	23	788
Rutgers College	9	619
	24	65
Rutgers Scientific School	24	66
Saint Bede College	24	123
Benedict College	24	123
Bernard's Theological Seminary	23	592
Charles College	24	125
Charles Theological Seminary	6	100
Francis Xavier College	24	128
George's Trade School of New York City	26	761
Ignatius College	24	131
John's College	11	467
John's College (Annapolis)	24	136
John's University (Collegeville, Minn.)	24	136
John's University (Toledo, Ohio)	24	136
John's Ecclesiastical Seminary	6	101
Joseph's Seminary (Dunwoodie, N. Y.)	6	100

Institutions — cont'd	Vol.	Page
	24	139
Lawrence University	24	141
Louis University	24	147
	24	152
Mary's College	24	154
Mary's Seminary	24	154
Mary's Seminary, Baltimore, Md.	6	100
	24	154
Michael's College	24	155
Olaf College	24	156
Paul's School	24	163
Paul's Seminary	6	100
	24	168
Santa Clara, University of	24	278
Schools for Specific Trades	26	761
Scotia Seminary	24	429
Seraphic College	23	305
Seton Hall College	24	608
Shattuck School	24	663
Shaw University	24	666
Sheffield Scientific School	1	250
	24	679
	29	609
Shurtleff College	24	761
Sibley College	24	775
Simmons College	9	696
	25	23
Simpson College	25	28
Smith College	25	130
Smithsonian Institution	25	132
South Carolina, University of	27	579
South Dakota Agricultural College	25	306
South Dakota State School of Mines	25	304
South Dakota, University of	25	306
Southern Baptist Theological Seminary	23	352
	25	310
Southern California University	25	310
	27	580
Southern College, Birmingham	25	310
Southern Minnesota, University of	25	311
Southwestern College	25	316
Southwestern Louisiana Industrial Institute	25	316
Southwestern Presbyterian University	22	537
Southwestern University	25	316
Spring Hill College	25	453
State College for Teachers at Albany, N. Y.	26	314
State College of Washington	25	508
State Normal Schools	26	313
State universities	25	522
Stevens Institute of Technology	25	638
Stillman Institute	22	537
Straight College	25	708
Sullins College	25	808
Summer School of the South	26	13
Summer schools	26	314
Susquehanna University	26	102
Swarthmore College	26	111
Sweet Briar College	9	698
Syracuse Medical School	19	539
Syracuse University	18	544
	26	184
Tabor College	26	200
Talladega College	26	226
Tarkio College	26	271
Taylor University	26	304

Institutions — cont'd	Vol.	Page
Teachers' College	7	262
	26	316
Teachers' Employment Agencies	26	316
Teachers' Institutes	26	315
Tennessee, University of	26	432
Texas Agricultural and Mechanical College	26	466
Texas Christian University	26	466
Texas State Normal School	26	464
Texas, University of	26	466
Thayer School of Civil Engineering	8	483
Theological Seminary of The Reformed Church of America	26	512
Theological Seminary of the United Presbyterian Church	22	130
Throop Polytechnic Institute	26	597
Towne Scientific School	26	727
Trade Schools	26	476
	26	754
Transylvania College	27	15
Transylvania University	18	542
Trinity College	27	68
Tufts College	27	131
Tulane University of Louisiana	27	134
Tusculum Academy	9	213
Tuskegee Normal and Industrial Institute	27	210
Union Christian College	27	285
Union College	27	286
Union Theological Seminary in the city of New York	27	290
Union University	27	290
United States Indian Training and Industrial School	27	554
United States Military Academy	27	555
United States National Museum	19	619
	27	555
University of Alabama	27	578
of California	1	248
	18	544
of Chicago	7	263
	26	49
of the City of New York	18	543
of Illinois	25	524
of Louisiana	18	543
of Louisville	18	543
of Michigan	7	201
of Oregon	22	396
of the Pacific	27	578
of Pennsylvania	7	202
	10	616
	18	538
	22	129
	22	134
of Pittsburgh	22	129
	22	134
of Rochester	23	591
	27	579
of the South	27	579
of South Carolina	27	579
of Southern California	27	580
of the State of New York	27	580
of Wisconsin	1	248
	7	263
	26	50
	29	424
Upper Iowa University	27	585

Institutions — cont'd	Vol.	Page
Ursinus College	27	598
Ursuline Convent and Academy of Saint Louis	27	599
Utah, University of	27	618
Agricultural College of	27	619
Vanderbilt University	27	681
Vassar College	9	693
	27	695
Vermont Academy of Medicine	18	542
Medical School	18	543
University of, and State Agricultural College	28	30
Vincennes University	28	95
Virginia College	23	562
Military Institute	28	128
Polytechnic Institute	28	129
Union University	28	130
University of	28	125
Volta Bureau	8	531
	28	175
Wabash College	28	203
Wake Forest College	28	216
Walden University	28	221
Washburn College	28	772
Washington and Jefferson College	28	798
Washington and Lee University	28	798
Washington College	9	213
Washington College (Tenn.)	28	798
Washington College (Md.)	28	797
Medical College	18	543
University	24	146
	28	799
Washington, State College	28	796
Waterville College	7	234
Waynesburg College	29	123
Wellesley College	7	264
	9	418
	9	693
	29	179
Female Seminary	7	264
Wells College	9	693
	29	187
Wentworth Institute, Boston	26	760
Wesleyan Female College	29	197
University, Middletown, Conn.	1	249
	29	197
Western College	9	693
Literary Institute	9	697
Maryland College	29	221
Reserve College, Ohio	2	459
Reserve University	29	222
Theological Seminary	22	129
Westminster College	29	225
	29	226
West Virginia University	29	218
Wheaton College	9	694
	29	247
Whitman College	29	282
Wilberforce University	29	301
Wiley University	29	317
Willamette University	29	325
Willard School, Emma	29	327
William and Mary College	29	337
William Jewell College	29	337
Penn Charter School	29	338

Institutions — cont'd	Vol.	Page
Williams College	2	459
	29	346
William Smith College	9	694
	14	302
Williamson Free School of Mechanical Trades	26	760
	29	347
Wilmerding School of Industrial Arts	26	760
Wilmington College	29	355
Wilson College	29	368
Winchester Medical College	18	543
Winthrop Normal and Industrial College of South Carolina	29	407
Wisconsin, University of	29	424
Wittenberg College	29	434
Wofford College	29	435
Woman's College of Due West	29	456
Woman's College of the New York Infirmary	18	544
Woman's School of Design	23	492
Women's Colleges	9	693
College of Western Reserve University	9	694
Medical College of Baltimore	18	544
Medical College of Pennsylvania	18	544
Wooster, College of	29	509
Worcester College	29	513
Polytechnic Institute	29	513
Wyoming, University of	29	590
Yale University	9	618
	29	607
Yankton College	29	613
York College	29	644
Zoological gardens	29	728
parks	29	728

FOREIGN

Institutions — cont'd	Vol.	Page
Aberdeen College	13	309
Aberdeen, University of	1	39
Académie Française	15	170
des Inscriptions et Belles-Lettres	15	171
des Sciences	15	171
Acadia University	1	66
Alberta, schools of	1	336
All Hallows College	1	407
All Souls' College	1	407
Almonry Schools	1	433
American College at Constantinople	23	565
American College at Louvain	6	88
American College at Rome	1	510
Anderson College, Glasgow	1	659
Anderson's Institute	13	309
Argentina, schools of	2	209
Athenæum	2	493
Athens American school	2	496
Balliol College	3	100
Bansho-torishirabe-sho	15	665
Basel, University of	3	305
Benet College	8	17
Berlin, University of	3	564
Bern, University of	3	567
Bishop's schools	4	16
Blundell's School	4	132
Bordeaux, University of	4	265
British Museum	3	563
	19	619
Bucharest, University of	4	663
Budapest, Royal Hungarian University of	4	672

Institutions — cont'd	Vol.	Page
Buenos Aires, University of	4	688
Business University Luigi Bocconi (Italy)	15	496
Cambridge, University of	5	251
	13	307
	13	308
Canadian universities	5	388
Catholic Colleges in Europe, American	6	88
Central Hindu College of Benares	15	20
Central Research Institute (India)	15	20
Charterhouse	6	340
Christ Church College	6	597
	21	72
Christ's Hospital	6	630
Christiania, University of	6	616
Clare College	7	34
Cloister schools	12	556
Coimbra, University of	7	218
College De France	7	261
of France	9	369
of Montreal	5	399
Copenhagen, University of	7	648
Corpus Christi College	8	17
Dalhousie College and University	8	415
Diderot School	26	759
Didsbury College	9	93
Dōshisha University	15	672
Downing College	9	288
Dublin, University of	9	372
Durham, University of	9	425
	13	308
Ecole Normale Israélite	16	145
Edinburgh College	13	309
Edinburgh, University of	9	586
Egyptological Museum	5	149
Emmanuel College	10	296
English College at Rome	10	363
Erlanger, University of	10	479
Eton College	10	555
	13	306
Exeter College, Oxford	10	638
Ferrante Aporti, Institutions of	15	492
Fitzwilliam Museum	11	308
Gemeinde-Schule	12	553
Geneva, University of	12	394
Georg August University	13	82
Ghent, University of	12	633
Girton College	5	252
	12	667
Glasgow College	13	309
University of	12	686
Gonville and Caius College	13	48
Göttingen, University of	13	82
Government and municipal technical schools, Canadian	5	378
museums	19	619
Gray's Inn	13	168
	14	315
Gymnasium	12	554
	13	588
Haileybury College	13	620
Hallé, University of	13	646
Harrow School	13	306
	13	732
Heidelberg University	14	70
Hertford College	14	152
	21	76
Igakusho	15	665
Imperial Agricultural College (India)	15	20

Institutions — cont'd	Vol.	Page
Industrial School of Morianwels	26	759
Industrial School of Tournay	26	759
Industrial schools	15	98
Institute of France	15	169
Institutes (Italian)	15	496
of fine arts	15	496
Institution of Civil Engineers (British)	13	312
Institution of Electrical Engineers (British)	13	312
Institution of Mechanical Engineers (British)	13	312
Italian schools	15	493
universities	15	493
Jardin des Plantes	21	315
Jesus College (Cambridge)	16	46
Jesus College (Oxford)	16	46
Joliette College	5	400
Keble College	16	331
Keiâ-gijuku University	15	672
King's College, Cambridge	16	444
King's College, Fredericton	5	372
King's College, London	16	444
College, Windsor, Canada	16	444
Kioto University	15	671
	16	452
Kyushu Imperial University	15	671
L'Académie des Beaux-Arts	15	171
L'Académie des Sciences Morales et Politiques	15	172
Lancasterian schools	16	687
Latin-American universities	17	11
Laval, University, Quebec	5	400
	5	435
	17	115
	23	75
Leeds, University of	17	229
Leipzig, University of	17	271
Lemberg, University of	17	278
	24	67
Lette Society of Berlin	26	757
Lincoln College	17	455
Lincoln's Inn	14	315
Liverpool, University of	13	307
London University	17	626
	17	634
Louvain, University of	17	692
Louvre, The	17	693
Luxembourg Gallery	17	764
	21	307
McGill College and University	18	48
McGill University	8	49
McKendree College	18	66
McMaster University	18	82
Magdalen College	18	113
Manchester University	18	200
Manitoba, University of	18	224
Mansfield College	18	235
Mareschal College and University	1	39
Mason College	13	308
Mechanics' Institutes	18	524
Merton College	18	683
Military institutes, Italy	15	496
Monastic schools, German	12	556
Munich, University of	19	566
National University of Ireland	13	310
	15	321
Nautical institutes (Italian)	15	494

Institutions — cont'd	Vol.	Page
New College, Oxford	20	120
Newnham College	5	252
	20	277
Nicolet College	5	399
Ontario Agricultural College	20	695
Oriel College	20	794
Oscott College	21	19
Ottawa, University of	21	47
Owens College (England)	21	65
Oxford University	13	307
	13	308
	21	75
Paris museums	21	307
Paris, University of	21	304
Pembroke College (Cambridge)	21	491
Pembroke College (Oxford)	21	491
People's Palace	21	559
Philippines, University of the	21	759
Physicians, Royal College of, Edinburgh	22	35
Physicians, Royal College of, London	22	35
Pisa, Royal Normal High School of	15	495
Polytechnic School of Montreal	17	115
Porto Rico, University of	22	403
	22	406
Practical School of Industry at Saint Etienne	26	759
Prague University	22	504
Preceptors, College of	22	520
Queens' College, Cambridge	23	78
Queen's College, Oxford	23	78
colleges	23	79
University	13	310
	23	79
University, Kingston	5	366
Railway employee schools, Canada	5	378
Rauhes Haus	23	231
Realgymnasium, German	12	555
	23	239
Realschulen	23	259
Rigaud College	5	400
Roberts College, Constantinople	13	489
	13	663
	23	566
Royal Academy of Music	23	734
Agricultural College at Cirencester	13	270
College of Music	25	735
Higher Institute of Technology, Italian	15	495
Institute of Social Science	15	496
Military College	5	412
Naval High School, Italian	15	496
Oriental Institute, Italian	15	496
Polytechnic High School, Italian	15	496
Schools of Veterinary Medicine, Italian	15	496
Scientific Literary Academy, Italian	15	495
University of Ireland	13	310
Rugby schools	13	306
	23	756
Saint Andrews University	13	309
	24	121

Institutions — cont'd	Vol.	Page
Hyacinthe College	5	399
	24	131
John's College, Cambridge	24	135
John's College, Oxford	24	136
Lawrence College	5	400
Luke Trade Schools	26	759
Mary Hall	24	153
Mary of Monnoir and Levis	5	400
Patrick's College, Maynooth	24	156
Paul's School (London, England)	24	163
Peter's College	24	166
Sulpice Seminary	24	170
Sainte Thérèse College	5	399
School of Musketry, Canada	5	412
Selwyn College	24	546
Seminary of Quebec	5	400
of Saint Sulpice at Montreal	5	399
Sheffield University	13	308
Sidney Sussex College	24	788
South Kensington Museum	25	304
South Kensington, National art schools of	25	304
Stonyhurst College	25	696
Syrian Protestant College of Beirut	4	87
	26	192
Taylor institution	26	304
Technical institutes	15	494
schools	26	319
Temple University	26	408
Textile Art, School of	26	757
Thorwaldsen Museum	26	590
Tohoku Imperial University	15	671
Tokio University	15	671
Toronto University	26	704
Toulouse, University of	26	718
Trinity College (Cambridge)	27	67
(Ireland)	13	310
	27	68
(Oxford)	27	68
College, University of (Toronto)	27	68
Hall	27	69
Turin, University of	27	179
Universities and seminaries, Canada	5	402
University of Barcelona	3	240
of British Columbia	5	435
of Cambridge	8	49
College	27	578
Court	13	252
of Dublin	13	310
	27	68
of Edinburgh	8	49
	9	586
of France	11	605
	11	643
of Montpellier	11	642
of New Brunswick	5	435
	9	297
of Oxford	8	49
	21	75
of Paris	11	644
	21	304
of Porto Rico	22	403
	22	406
of Prague	11	552
	22	504
of Salamanca	24	177
of Sydney	26	156

Institutions — cont'd	Vol.	Page
University of Toronto..	5	435
	26	704
of Wales.....	13	309
	28	226
Uppsala	27	585
Upsala	27	585
Ursulines of Quebec.....	5	402
Utrecht, University of...	27	623
Victoria University.....	13	308
	28	76
Volks-schule	12	553
Wadham College.....	28	206
Wales, University of....	28	226
Warsaw, University of..	28	717
Waseda University.....	15	672
Westminster School.....	29	226
Winchester College.....	13	306
	29	376
Würzburg, University of	29	578

Libraries

Accessions	17	383
Acquisition	17	383
Administration	17	382
American Library Association	1	527
	17	393
American Library Association's War Service libraries	27	20
American Library Schools, Association of	17	393
Apellicon, Library of...	17	356
Aristotle's Library.....	17	355
Assyro Babylonian libraries	17	354
Athenæums, Mercantile and Apprentice libraries	17	359
Author catalog.....	17	384
Baltimore Library Association	17	359
Biblioteca Ambrosiana..	17	373
Braidense	17	373
Brancacciano	17	373
Casanatense	17	373
Marciana	17	373
Nazionale Centrale of Florence.....	17	373
Riccardiana	17	373
Universitaria Alessandrina	17	373
Bibliotheca Firmiana...	11	258
Bibliotheque de l'Arsenal	21	308
Bibliothèque Mazarine..	21	308
Nationale	21	308
Sainte Geneviève....	21	308
de la Ville.....	21	308
Bodleian, library.....	4	145
Book selection.....	17	383
Boston Public Library..	17	360
Brera Library.....	11	258
Byzantine Empire, libraries of	17	356
Charlestown, S. C. Library	17	359
Chicago Public Library	6	442
	17	360
Children's department..	17	381
Children's libraries.....	6	488
Classification	17	384
College and university libraries	17	361
Columbia, District of, Library	17	361
Constantinople, library at	17	357
Conversation	17	381
Cottonian Library.....	8	84
County libraries.....	17	385
Denver Public Library.	17	361
Development of traveling library systems...	27	20
Dictionary catalogs....	17	384
Economics, libraries of.	17	364
Educational significance of the traveling library	27	19
Egypt, libraries of.....	17	354
First American traveling libraries.....	27	18
Foreigners and public libraries	17	382
Free Library of Philadelphia	27	19
Free Public Library....	17	359
Greece, ancient, libraries of	17	355
Harvard, library of....	17	361
Historical libraries.....	17	363
Imperial Library at Petrograd	17	375
John Crerar Library...	16	163
Königl Bibliothek at Berlin	17	370
Königl, Hof-u, Staatsbibliothek	17	371
Königl, u. Provinzial-Bibliothek at Hanover	17	371
Law libraries.....	17	363
Legislative reference libraries	17	385
Lending	17	384
Libraries, African.....	17	378
ancient	17	354
Argentine	17	366
Assyro-Babylonian..	17	354
Australian	17	378
Austria-Hungary ..	17	368
Belgian	17	374
Brazilian	17	366
Byzantine	17	356
Canadian	17	365
Central America....	17	366
Chinese	17	377
College and University	17	361
commercial	17	378
Cuban	17	366
Danish	17	375
of economics, political science and sociology	17	364
Egyptian	17	354
French	17	368
German	17	370
Great Britain.....	17	366
Grecian (ancient)...	17	355
(modern)	17	377
Hawaiian	17	377
historical	17	363
Holland	17	374
India	17	377
industrial	17	378
Italian	17	372
Japanese	17	377
Latin American....	17	366
law	17	363
Mediæval and Renaissance	17	357
medical	17	363
mercantile and apprentice	17	359
Mexican	17	366
modern	17	359
municipal (French).	17	368
(German)	17	371
Netherlands	17	374
New Zealand	17	378
Norwegian	17	375
pedagogical	17	383
Pergamon	17	355
Philippine Islands..	17	377
Portuguese	17	376
Provincial (Canada)	17	365
Public, British.....	17	367
Renaissance	17	358
Roman (ancient) ...	17	355
Russian	17	375
Scandinavian	17	375
scientific	17	364
Siamese	17	377
South American....	17	366
Spanish	17	376
special	17	363
	17	378
Austria-Hungary	17	368
Belgium	17	374
British	17	367
French	17	369
German	17	372
Italian	17	374
State	17	362
Swedish	17	376
Swiss	17	376
technical	17	364
theological	17	363
traveling	27	18
(Canada)	17	365
United States.....	17	359
university, Austria-Hungary	17	368
Canada	17	366
French	17	370
Germany	17	372
Great Britain...	17	366
in the South....	17	362
in the West....	17	362
Italy	17	374
Library administration.	17	381
buildings	17	382
Company of Philadelphia	17	359
data	17	389
economy, school of..	17	393
laws and legislation in the United States	17	392
philanthropy	17	359
schools	17	393
science	17	393
training	17	393
Loganian library.....	17	359
London libraries.....	17	625
Louisville Public Library	17	361
Lucullus, Library of...	17	355
Medical libraries.....	17	363
Medicean Library.....	17	358
Mediceo Laurenziana ...	17	373
Mind, dispensary of the.	17	355
Monastery libraries.....	22	709
Monastic libraries.....	17	357
Municipal libraries.....	17	371
Municipal reference libraries	17	385
National Library (Bibliothèque Nationale) of France	19	739
National Library of Italy	17	373
Newberry Library.....	20	260
New York Free Circulating Library.....	27	19
New York Public Library	17	360
	20	241
New York Society Library	17	359
Octavian Library.....	17	356
Paid help.....	17	385

Libraries — cont'd	Vol.	Page
Parochial libraries	17	359
	22	769
Pedagogical libraries	17	363
People's University	17	385
Pergamon libraries	17	355
Peterborough Monastery Library	17	357
Petersborough, N. H., Town Library	17	360
Pittsburgh, Carnegie Library	17	361
Political Science, libraries of	17	364
Printed cards	17	364
Providence Library	17	359
Public Library and popular education	22	769
Public Library	22	769
Public Library, æsthetic education	22	772
Public Library, civic education	22	771
Public Library, lectures and exhibitions	22	771
Public Library, work with children	22	771
Public Library, work with clubs and societies	22	771
Public Library, work with schools	22	771
Reading	17	381
Redwood Library	17	359
Reference	17	385
Reference bureaus	23	298
Renaissance libraries	17	358
Research bureaus	23	298
Rome, ancient libraries of	17	355
Rural libraries	23	777
Saint Gall, Library of	17	376
Saint Gall, Monastic Library of	17	357
Saint Louis Public Library	17	360
San Giorgio Maggiore, Library of	17	358
Saxony, Royal Library of	17	371
School libraries	5	364
	17	382
Scientific libraries	17	364
Social sciences, economics, etc.	17	365
Sociology, libraries of	17	364
Special libraries	17	363
	22	772
Specific educational activities of the public library	22	771
Spelling reform	17	382
State libraries	17	362
Story hour	17	381
Stuttgart. Königl Landesbibliothek of	17	371
Subject catalog	17	384
Subscription libraries	22	769
Syracuse, libraries of	26	182
Technical libraries	17	364
Theological libraries	17	363
Thoth, sacred books of	17	355
Tiberius, Library of	17	356
Tilden Foundation, the	26	624
Timgad Library	17	356
Traveling libraries	26	48
	27	18
Traveling libraries deposit stations	27	19
Traveling libraries in America	27	18
Traveling libraries (collections)	27	18
Traveling libraries, types of	27	18
Traveling library bookwagon	27	19
Traveling library, educational extension	27	19
Ulpian Library	17	356
University libraries	17	372
Vatican Library	17	358
	23	661
Widener Memorial Library	18	747
William and Mary College Library	17	361
Yale, Library of	17	361

Biographies

UNITED STATES

Biographies — cont'd	Vol.	Page
Abbot, Benjamin	1	14
Abbott, Frank Frost	1	17
Abbott, Gorham Dummer	1	18
Abbott, Joseph Hale	1	15
Abbott, Wilbur Cortez	1	19
Abercrombie, John William	1	87
Adams, Ephraim Douglass	1	120
Adams, John	1	122
Adler, Dr. Felix	1	142
	22	691
Aiken, Charles Francis	1	273
Akers, Peter	1	294
Alderman, Edwin Anderson	1	354
Anderson, Edwin Hatfield	1	658
Anderson, Henry John	1	659
Anderson, Martin Brewer	1	660
Anderson, Elisha Benjamin	1	674
Angell, James Burrill	1	682
Anthon, Charles	2	16
Armstrong, Andrew Campbell	2	285
Armstrong, Edward Cooke	2	285
Armstrong, Samuel Chapman	2	286
Arnold, Sarah Louise	2	318
Atherton, George William	2	497
Auchmuty, Col. Richard T.	26	760
Avery, Elroy McKendree	2	675
Ayres, Brown	2	685
Ayres, Leonard Porter	2	685
Azarias, Brother	2	688
Bacon, Alice Mabel	3	19
Baird, Spencer Fullerton	3	57
	25	132
Baker, James Hutchins	3	60
Balch, George	11	309
Baldwin, James	3	77
Ballantine, William Gay	3	97
Balliet, Thomas M.	3	99
Bancroft, Cecil Franklin Patch	3	132
Bardeen, Charles William	3	245
Barnard, Henry	3	264
Barnes, Earl	3	266
Basedow, Johann Bernhard	3	303
Bateman, Newton	3	329
Bell, Alexander Graham	3	471
	28	175
Bell, Alexander Melville	3	472
	28	185
Bennett, Charles Edwin	3	519
Benton, Guy Potter	3	528
Bicknell, Thomas William	3	681
Bishop, Jacob	20	53
Blackmar, Frank Wilson	4	44
Blair, James	4	54
Bliss, Daniel	4	87
Bliss, Howard Sweetser	4	88
Blow, Susan Elizabeth	4	118
Blunt, Edmund March	4	182
Blunt, George William	4	182
Boise, James Robinson	4	174
Bonbright, Daniel	4	209
Bostwick, Arthur Elmore	4	304
Boughton, Willis	4	324
Bowditch, Henry Pickering	4	360
Bowen, Francis	4	361
Boyd, David French	17	686
Boyd, Thomas Duckett	4	373
Brackett, Anna Callender	4	382
Bradley, John Edwin	4	388
Brandt, Hermann Carl George	4	413
Bridgman, Laura Dewey	4	582
	8	534
Briggs, Le Baron Russell	4	587
Brooks, Charles	26	312
Brown, Elmer Ellsworth	4	604
Brown, Nicholas	4	610
Brownell, Clarence Ludlow	4	617
Brownell, George Griffin	4	617
Bryan, Elmer Burritt	4	646
Bumpus, Hermon Carey	5	22
Burgess, John William	5	38
Burr, Aaron	5	63
Bussey, Benjamin	5	75
Butler, Nicholas Murray	5	81
Butts, Henry Anson	5	92
Caldwell, Joseph	5	189
Cameron, Arnold Guyot	5	262
Canfield, James Hulme	5	499
Capen, Elmer Hewitt	5	550
Carnegie, Andrew	5	632
	22	770
Carter, Franklin	5	678
Carter, James G.	5	679
	26	512
Case, Leonard	5	697
Castelli, B.	6	3
Champlin, James Tift	6	275
Chandler, Abiel	6	285
Chase, Thomas	6	346
Cheever, Ezekiel	6	375
Chittenden, Russell Henry	6	571
Chubb, Percival	6	650
Claxton, Philander Priestly	7	65
Clement, Ernest Wilson	7	86
Cohn, Adolphe	7	217
Coit, James Milnor	7	225
Cole, William Morse	7	242
Coman, Katherine	7	347
Comfort, George Fisk	7	361
Comstock, Anna	7	454
Cone, Orello	7	485
Cook, Albert Stanburrough	7	620
Cook, John Francis	7	622
Cooke, Morris Llewellyn	5	637
Coolidge, Archibald Cary	7	632
Cooper, Myles	7	636
Coppin, Fanny Muriel Jackson	7	666
Cornell, Ezra	7	711
Courtis, Stuart Appleton	8	125

Biographies — cont'd	Vol.	Page
Cox, Isaac Joslin	8	140
Cox, Samuel Hanson	8	140
Craig, Katherine L.	8	150
Crawford, William Henry	8	166
Crawshaw, William Henry	8	166
Crook, Isaac	8	226
Crosby, Howard	8	228
Cross, Wilbur Lucius	8	229
Crowell, Edward Payson	8	246
Cunliffe, John William	8	302
Cupples, Samuel	8	304
Curry, Samuel Silas	8	315
Curtius, Ernst	8	318
Cushing, Harry Alonzo	8	333
Cutting, Starr Willard	8	344
Dabney, Charles William	8	387
Dana, John Cotton	8	444
Daubeny, Charles Giles Bridle	8	492
Davenport, Eugene	8	497
Davidson, Charles	8	504
Day, James Roscoe	8	518
Day, Jeremiah	8	518
De Garmo, Charles	8	594
Deiler, John Hanno	8	601
Demarest, William Henry Steele	8	632
Denney, Joseph Villiers	8	686
Dennison, Walter	8	686
Denny, George Hutcheson	8	687
De Pauw, Washington Charles	8	701
Dew, Thomas Roderick	9	44
Dewey, Melvil	9	48
	17	393
Dexter, Edwin Grant	9	50
Dickinson, Mary Lowe	9	84
Dixon, James Main	9	211
Doak, Samuel	9	213
Dodd, Walter Fairleigh	9	218
Drachman, Bernard	9	291
Draper, Andrew Sloan	9	311
Drew, Daniel	9	332
Drisler, Henry	9	337
Droppers, Garrett	9	340
Drown, Thomas Messinger	9	341
Du Bois, William Edward Burghardt	9	373
Dunster, Henry	9	409
Dutton, Samuel Train	9	440
Dwight, Nathaniel	9	446
Dyer, Louis	9	451
Eaton, John	9	517
Edwards, James Thomas	9	707
Eliot, Charles Williams	10	240
	13	746
Eliot, Samuel	10	243
Elliott, Edward Charles	10	254
Ellis, Alston	10	256
Emerson, George Barrell	10	286
Emerson, Oliver Farrar	10	286
Engler, Edmund Arthur	10	359
Espinosa, Aurelio Macedonio	10	503
Ewell, Benjamin Stoddert	10	615
Ewing, John	10	616
Fairbanks, Arthur	10	716
Fairchild, George Thompson	10	718
Farrand, Livingston	11	47
Farrand, Max	11	47
Faunce, William Herbert Perry	11	64
Fay, Charles Ernest	11	71
Fay, Edwin Whitefield	11	72
Ferris, Woodbridge Nathan	11	141

Biographies — cont'd	Vol.	Page
Finley, John Huston	11	226
Finley, Samuel	11	226
Fitch, Ebenezer	11	297
Fitz-Gerald, John Driscoll II	11	301
Fitz-Hugh, Thomas	11	302
Fletcher, William Isaac	11	349
Flexner, Abraham	11	351
Follen, Charles Theodore Christian	11	423
Folsom, Charles	11	423
Folwell, William Watts	11	424
Ford, Jeremiah Denis Matthias	11	465
Foresti, Eleutario Felice	11	477
Fortier, Alcée	11	514
Foster, William Trufant	11	530
Fowler, Charles Henry	11	561
French, Mansfield	12	61
Frieze, Henry Simmons	12	109
Frost, John	12	124
Frost, William Goodell	12	124
Frye, Alexis Everett	12	140
Gallaudet, Edward Miner	12	243
Gallaudet, Thomas	12	243
Gallaudet, Thomas Hopkins	12	243
Gamewell, Francis Dunlap	12	270
Garfield, Harry Augustus	12	289
Garnett, James Mercer	12	295
Garrison, George Pierce	12	298
Gates, Lewis Edwards	12	336
Gates, Merrill Edwards	12	336
Gayley, Charles Mills	12	348
Gerig, John Lawrence	12	497
Gilman, Arthur	12	656
Gilman, Daniel Coit	12	656
Gobin, Hillary Asbury	12	742
Goebel, Julius	12	751
Goodell, Henry Hill	13	57
Goodknight, James Lincoln	13	57
Goodnow, Frank J	13	58
Gratz, Rebecca	13	162
Griffis, William Elliot	13	470
Griggs, Edward Howard	13	471
Griscom, John	13	481
Grosvenor, Edwin Augustus	13	489
Gulick, Luther Halsey	13	543
Guthrie, William B	13	580
Hadley, Arthur Twining	13	609
Hallmann, William Nicholas	13	620
Hall, Samuel	26	311
Halleck, Reuben Post	13	647
Hamilton, James	13	658
Hamlin, Cyrus	13	663
Hanus, Paul Henry	13	685
Harper, William Rainey	13	721
Harpur, Robert	13	722
Harris, George	13	724
Hartranft, Chester David	13	742
Harvard, John	13	745
Hazard, Caroline	14	23
Hazen, Charles Downer	14	24
Henderson, Charles H	14	93
Henry, Joseph	14	106
	25	132
Henry, William Arnon	14	108
Hibben, John Grier	14	164
Hill, Frank Alpine	14	187
Hill, Frank Pierce	14	187
Hill, Walter Barnard	14	189
Hitchcock, Edward	14	297
Holbrook, Josiah	17	768
Hollis, Thomas	13	745
Hopkins, Johns	14	372
Hopkins, Mark	14	372

Biographies — cont'd	Vol.	Page
Hoyt, John Wesley	14	461
Hull, Charles Henry	14	483
Huntington, William Edwards	14	519
Ingersoll, Leonard Rose	15	129
Jackson, Sheldon	15	581
Jacobus, Melanchthon Williams	15	592
James, Edmund James	15	603
James, James Alton	15	605
Jesse, Richard Henry	16	35
Jewett, Charles Coffin	16	59
Johnson, Franklin	16	171
Johnson, Herman Merrill	16	171
Johnson, Herrick	16	171
Johnson, Samuel	16	174
Johnston, Richard Malcolm	16	186
Johnston, Robert Matteson	16	186
Johnston, William Dawson	16	187
Johnston, William Preston	16	187
Jones, Frederick Scheetz	16	196
Jordan, David Starr	16	208
Joynes, Edward Southey	16	226
Judson, Harry Pratt	16	237
Keane, John Joseph	16	326
Keep, Robert Porter	16	334
Keller, Helen Adams	16	339
Kellogg, Amos Markham	16	341
Kellogg, Martin	16	342
Keller, Helen	8	535
	16	339
Kelsey, Francis Willey	16	346
King, Henry Churchill	16	430
King, Lida Shaw	16	432
Kingsley, Jame Luce	16	447
Kirkland, James Hampton	16	458
Kirkland, John Thornton	16	458
Kriehn, George	16	543
Ladd, George Trumbull	16	641
Laing, Gordon Jennings	16	654
Lane, George Martin	16	713
Lane, William Coolidge	16	714
Langley, Samuel Pierpont	16	721
	22	129
	25	132
Langston, John Mercer	16	722
Larrabee, William Clark	16	772
Lathrop, John Hiram	16	764
Lawrence, Amos Adams	17	145
Lawton, William Cranston	17	155
Learned, Marion Dexter	17	179
Leipziger, Henry Marcus	17	271
Lenox, Henrietta	20	241
Lick, James	17	401
Livingston, John H	17	541
Loos, Charles Louis	17	652
Lord, John King	17	656
Lovell, John	17	695
Low, Seth	17	697
Lowell, Abbott Lawrence	17	699
Lyon, Mary	17	780
MacCracken, Henry Mitchell	18	30
MacCracken, Henry Noble	18	31
MacCracken, John Henry	18	31
Mackenzie, James Cameron	18	68
MacLean, George Edwin	18	76

Biographies — cont'd	Vol.	Page
MacQueary, Thomas Howard	18	90
McGuffey, William Holmes	18	50
McKeever, William Arch	18	65
McLean, John	18	77
McMurry, Charles Alexander	18	84
McMurry, Frank Morton	18	85
Mahan, Asa	18	134
Mallet, John William	18	167
Manly, Basil	18	227
Manly, John Matthews	18	227
Mann, Horace	19	227
	26	312
Manning, James	18	230
Martin, Alexander Carson	18	336
Martin, William Alexander Parsons	18	339
Mather, Increase	13	745
Maxwell, William Henry	18	460
Mayo, Amory Dwight	18	467
Meiklejohn, Alexander	18	597
Mell, Patrick Hues	18	605
Merrick, Frederick	18	679
Merrifield, Webster	18	679
Merrill, Elmer Truesdell	18	679
Meyer, Annie Nathan	19	1
Mielsiner, Moses	19	46
Moore, Clifford Herschel	19	428
Moore, Frank Gardner	19	430
Moore, Zepaniah Swift	19	434
Morais, Sabato	19	437
Morey, William Carey	19	449
Morley, Margaret Warner	19	462
Mott, Lewis Freeman	19	519
Moulton, Richard Green	19	521
Mowry, William Augustus	19	541
Mullany, Patrick Francis	2	688
Neill, Charles P	20	62
Neill, Edward Duffield	20	62
Nicholson, Thomas	20	320
Noble, Eugene Allen	20	385
Nogarola, Issotta	11	191
Northrop, Birdsey Grant	20	429
Northrop, Cyrus	20	429
Nott, Eliphalet	20	460
O'Conor, John Francis Xavier	20	573
O'Shea, Michael Vincent	21	19
Osler, Sir William	21	21
Packard, Alpheus Spring	21	90
Packard, Silas Saddler	21	91
Page, Curtis Hidden	21	96
Page, David Perkins	21	96
Palmer, Alice Freeman	21	211
Palmer, George Herbert	21	212
Pancoast, Henry Spackman	21	240
Parker, Francis Wayland	21	327
Partridge, Alden	21	356
Patrick, Mary Mills	21	403
Pattison, Robert Everett	21	410
Patton, Francis Landey	21	411
Payne, William Harold	21	434
Peabody, Elizabeth Palmer	21	438
Peabody, Selim Hobart	21	439
Peck, Annie Smith	21	462
Peck, Harry Thurston	21	463
Peck, William Guy	21	463
Peet, Harvey Prindle	21	471
Peirce, Benjamin Osgood	21	474
Pendleton, Ellen Fitz	21	501
Pendleton, William Kimbrough	21	501
Pepper, George Dana Boardman	21	564
Perrin, Bernadotte	21	605
Perry, Edward Delavan	21	606
Philbrick, John Dudley	21	739
Philips, George Morris	21	760
Phillips, Ulrich Bonnell	21	764
Pierson, Abraham	22	77
Pitman, Benn	22	121
Plummer, Mary Wright	22	358
Plympton, George Washington	22	265
Polk, Leonidas	22	318
Poole, William Frederick	22	354
Porter, Noah	22	391
Posey, Alexander Lawrence	22	420
Potter, Eliphalet Nott	22	452
Pound, Roscoe	22	471
Powell, Lyman Pierson	22	476
Preston, William Campbell	22	560
Price, Thomas Randolph	22	568
Prosser, Charles Allen	22	670
Putman, Emily James Smith	23	33
Putnam, Herbert	23	34
Quackenbos, George Payn	23	51
Quaife, Parker	23	56
Rains, George Washington	23	194
Rawson, Edward Kirk	23	238
Raymond, Bradford Paul	23	239
Raymond, John Howard	23	240
Redpath, James	23	289
Reed, George Edward	23	293
Reed, Joseph	23	293
Rees, John Krom	23	297
Reid, William Thomas	23	332
Remsen, Ira	23	366
Remy, Arthur Frank Joseph	23	367
Rhees, Benjamin Rush	23	456
Richards, Ellen Henrietta Swallow	23	491
Richards, Robert Hallowell	23	492
Richardson, Charles Francis	23	493
Richardson, Ernest Cushing	23	493
Richmond, Charles Alexander	23	499
Ricketts, Palmer Chamberlaine	23	509
Ridpath, John Clark	23	513
Riggs, John Davis Seaton	23	518
Roberts, Isaac Phillips	23	569
Roberts, William Henry	23	570
Robertson, William Schenck	23	573
Robertson, William Spence	23	574
Robinson, Ezekiel Gilman	23	580
Robinson, James Harvey	23	581
Rogers, Howard Jason	23	628
Rolfe, John Carew	23	634
Rosenau, William	23	697
Runkle, John Daniel	23	775
	28	160
Rutgers, Henry	24	65
Sabin, Ellen Clara	24	80
Sachs, Julius	24	88
Sanford, Edmund Clark	24	260
Sargent, Dudley Allen	24	303
Scarborough, William Saunders	24	354
Schaeffer, Nathan C	24	362
Schurman, Jacob Gould	24	407
Schuyler, Aaron	24	408
Scott, Austin	24	438
Scott, Fred Newton	24	439
Scott, Hugh Lenox	24	439
Scudder, Vida Dutton	24	457
Sears, Barnas	24	489
Seelye, Julius Hawley	24	530
Seelye, Laurenus Clark	24	530
Seton, Elizabeth A	6	89
	24	607
Sewall, May Wright	24	624
Sharpless, Isaac	24	662
Shattuck, Frederick Cheever	24	663
Shepherd, William Robert	24	698
Shields, Charles Woodruff	24	708
Shorey, Paul	24	746
Siebert, Wilbur Henry	24	768
Skiff, Frederick James Volney	25	70
Skinner, Charles Rufus	25	76
Slocum, William F	25	99
Smith, Charles Forster	25	114
Smith, Clement Lawrence	25	114
Smith, Francis Henney	25	116
Smith, George Williamson	25	118
Smith, Richard Somers	25	126
Smith, Sophia	25	127
Smith, William Waugh	25	130
Smithson, James	25	131
Snow, Francis Huntington	25	148
Soule, Gideon Lane	25	271
Spencer, Platt Roger	25	394
Spofford, Ainsworth Rand	25	427
Stahr, John Summers	25	471
Stanford, Jane Lathrop	25	482
Stanford, Leland	25	482
Steele, Joel Dorman	25	607
Stevens, Edwin Augustus	25	635
Strong, Frank	25	739
Stuart, R. L	20	241
Swain, Joseph	26	106
Sweet, Stephen R	26	315
Swinton, William	26	141
Taft, William Howard	26	212
Taylor, James Munroe	26	299
Taylor, Joseph	4	650
Terry, Benjamin Stuytes	26	449
Thach, Charles Coleman	26	481
Thacher, Thomas Anthony	26	482
Thayer, Eli	26	490
Thayer, Ezra Ripley	26	490
Thayer, Joseph Henry	26	490
Thilly, Frank	26	553
Thoburn, Isabella	26	569
Thomas, Calvin	26	571
Thomas, Martha Carey	26	574
Thompson, Robert Ellis	26	579
Thornwell, James Henley	26	588
Thwing, Charles Franklin	26	603
Thurston, Robert Henry	26	603
Ticknor, George	13	746
	26	608
Titcomb, Mary L	27	19
Triggs, Oscar Lovell	27	55
True, Alfred Charles	27	108

Biographies — cont'd	Vol.	Page
Trueblood, Benjamin Franklin	27	103
Tubbs, Frank Dean	27	119
Tucker, William Jewett	27	129
Tufts, James Hayden	27	131
Tyler, Charles Mellen	27	231
Unthank, James Bryant	27	562
Upson, Anson Judd	27	586
Van Amringe, John Howard	27	662
Van Bokkelen, Libertus	27	662
Vawter, Charles Erastus	27	706
Vethake, Henry	28	53
Vincent, George Edgar	28	96
Wadsworth, James	28	207
Wait, William Bell	28	214
Walcott, Charles D	25	132
	28	219
Ward, Henry A	26	295
Warfield, Benjamin Breckinridge	28	703
Warren, Henry Kimball	28	708
Warren, Minton	28	709
Washburn, George	28	771
Washburn, Margaret Floy	28	771
Washington, Booker Taliaferro	28	772
Watson, William	29	111
Wayland, Francis	29	121
Webber, Samuel	29	144
Weitenkampf, Frank	29	175
Welch, Herbert	29	176
Weld, Theodore Dwight	29	176
Weldon, Richard Chapman	29	178
Welling, James Clarke	29	180
Wheeler, Benjamin Ide	29	250
Wheelock, John	29	253
White, Horatio Stevens	29	266
White, John Campbell	29	267
White, Wilbert Webster	29	269
Wiener, Leo	29	297
Wiggins, Benjamin Lawton	29	298
Wigmore, John Henry	29	299
Wilbur, Ray Lyman	29	301
Wilcox, Marrion	29	302
Wilkinson, William Cleaver	29	322
Willard, Emma Hart	29	325
Willard, Frances Elizabeth	29	326
Willard, Joseph	29	326
Willard, Samuel	29	327
Willcox, Cornélis De Witt	29	327
Williamson, Alexander William	29	346
Willis, H(enry) Parker	29	349
Williston, Samuel	29	349
Willoughby, Westel Woodbury	29	350
Wilson, George Grafton	29	357
Wilson, William Lyne	29	363
Winchester, Caleb Thomas	29	372
Winship, George Parker	29	399
Wirt, William Albert	29	417
Wise, Isaac Mayer	29	427
Witmer, Lightner	29	433
Wood, Irving Francis	29	473
Woodbridge, Frederick James Eugène	29	492
Woodburn, James Albert	29	492
Woodhull, John Francis	29	495
Woodrow, James	29	497
Woods, Leonard	29	498
Woodward, Calvin M	28	160
	29	499

Biographies — cont'd	Vol.	Page
Woolley, Mary Emma	29	597
Woolsey, Theodore Dwight	29	597
Worcester, Dean Conant	29	599
Wright, George Frederick	29	569
Wurts, John	29	577
Yale, Elihu	29	696
Young, Clark Montgomery	29	649
Young, Ella Flagg	29	650
Young, Frederick George	29	650
Zimmerman, Jeremiah	29	709
Zollars, Ely Vaughan	29	722

GREAT BRITAIN

Abbott, Thomas Kingsmill	1	19
Adam, Alexander	1	115
Aldfrid, King of Northumbria	15	358
Arnold, Thomas	2	318
Arnold, Thomas Kerchever	2	319
Ascham, Roger	2	379
Badham, Charles	3	35
Beale, Dorothea	3	376
Bell, Alexander Melville	3	472
Bell, Andrew	3	472
Bodley, Sir Thomas	4	145
Bond, Sir Edward Augustus	4	209
Boyle, Horatio Temple Stannage	4	375
Bradley, Andrew Cecil	4	387
Bray, Thomas	4	423
	22	769
Brodrick, George Charles	4	573
Bryce, George	4	648
Buchanan, George	4	657
Burney, Charles	5	57
Busby, Richard	5	72
Caven, William	6	149
Cheke, Sir John	6	376
Clough, Anne Jemima	7	132
Cockburn, George Ralph Richardson	7	186
Cocker, Edward	7	186
Cook, John	7	622
Cossio, Aluigi	8	39
Craik, Sir Henry	8	151
Crawley, Edmund Albern	8	166
Creelman, George Christie	8	176
Cutter, George Burton	8	343
De Koven, James	8	604
Dill, Sir Samuel	9	121
Donaldson, Sir James	9	254
Duff, Edward Gordon	9	387
Dyer, Henry	9	451
Falconer, Sir Robert Alexander	10	727
Farnaby, Thomas	11	41
Girdwood, Gilbert Prout	12	665
Glashan, John Cadenhead	12	687
Grant, George Monro	13	134
Grant, Sir Alexander	13	134
Griffith, Ralph Thomas Hotchkin	13	471
Hamilton, James	13	658
Hutton, Maurice	14	531
Inch, James Robert	14	740
Ingram, John Kells	15	132
Jacotot, Jean Joseph	15	593
Jevons, Frank Byron	16	48
Jones, Emily Elizabeth Constance	16	196
Jones, Sir Henry	16	197
Jowett, Benjamin	16	225

Biographies — cont'd	Vol.	Page
Kay-Shuttleworth, Sir James Phillips	16	323
Kennedy, Benjamin Hall	16	355
Knowling, Richard John	16	496
Lancaster, Joseph	16	685
La Peltrie, Marie Madeline de	15	579
Leacock, Stephen Butler	17	170
Leech, Arthur Francis	17	170
Macallum, Archibald Byron	18	7
Mackinder, Halford John	18	72
MacLean, James Alexander	18	77
McKay, Alexander Charles	18	63
McLellan, James Alexander	18	77
Merchant, Francis Walter	18	656
Merton, Walter de	18	683
Morant, Sir Robert Laurie	19	439
Muir, John	19	550
Murray, John Clark	19	611
Osler, Sir William	21	21
Parker, Edward Harper	21	326
Parker, George Robert	21	605
Parkin, George Robert	21	332
Parr, Samuel	21	342
Pattison, Mark	21	410
Payne, Joseph	21	434
Pearson, Karl	21	459
Percival, John	13	307
Perrin, Ernest L	21	605
Pitman, Sir Isaac	22	122
Plarr, Victor Gustave	22	223
Raleigh, Sir Walter	23	197
Rhodes, Cecil	13	308
	23	471
Robertson, James Wilson	23	572
Rogers, William	23	630
Rouse, William Henry Denham	23	723
Sexton, Frederick Henry	24	630
Shirreff, Emily Anne Eliza	24	737
Simmons, Henry	26	164
Symeonis, Henry	26	164
Temple, Frederick	13	307
	26	406
Thring, Edward	26	596
Todd, Alpheus	26	666
Tory, Henry Marshall	26	715
Welldon, James Edward Cowell	29	178
Windle, Sir Bertram Coghill	29	380
Wright, Robert Ramsey	29	570
Wrong, George Mackinnon	29	574

OTHER COUNTRIES

Abraham, Ladislas	1	47
Agilbert	15	358
Agnesi, Maria Gaetana	1	238
Agricola, Rodolphus	1	242
Alcuin	1	351
	15	360
Althoff, Dr. Frederich	12	549
Amado De Contreras, Ramón Ruiz	1	461
Angiulli, Andrea	15	498
Benigni, Umberto	3	516
Benignus	15	368
Boissonade, Jean François	4	176

Biographies — cont'd	Vol.	Page
Bonet, Juan Pablo	4	213
Botta, Vincenzo	4	315
Braille, Louis	4	396
Breithaupt, Rudolf M.	22	60
Buisson, Ferdinand Edouard	4	715
Capponi, Gino	5	570
	15	492
Cardano, Girolamo	5	598
	8	530
Casadda	15	358
Chad	15	359
Chrysoloras, Manuel	6	648
	11	552
Chrysoloras, Michael	6	648
	14	487
Clauson-Kaas, Adolph von	7	64
Clerc, Laurent	7	90
Columbanus	7	334
	15	358
Comenius, or Komensky, Johann Amos	7	355
Cordier, Henri	7	687
Cygnæus, Uno	9	611
Czerny, Karl	8	384
	22	59
Dashkoff, Princess Ekatérina Romanov'na	8	489
Daurat, Jean	8	495
De Becker, Jules Alphonse Marie	8	543
Diels, Hermann	9	95
Diesterweg, Friedrich Adolf Wilhelm	9	100
D'sá, Manoel Francis Xavier	9	266
Ecgberct (Egbert)	15	358
Epée, Charles Michel, Abbé de l'	10	411
Eumenius	10	575
Faust, Albert Bernhardt	11	65
Feijóo y Montenegro, Benito Gerónimo	11	96
Fellenberg, Philipp Emanuel von	11	104
Feltre, Vittorino da	11	191
Flaccus, Albinus	1	351
Fleischer, Heinrich Leberecht	11	343
Foncin, Pierre François Charles	11	424
Fonseco Benevides, Francisco da	11	425
Fortoul, Hippolyte N. H.	11	522
Francke, Augustus Hermann	11	762
	26	310
Friedland, Valentin	12	104
Froebel, Friedrich Wilhelm August	12	115
	16	416
Fryer, John	12	140
Fukuda, Tokuso	12	151
Fukuzawa, Yukichi	12	151
Gabelli, Aristide	15	498
Gallappi, Pasquale	15	491
Gamewell, Francis Dunlap	12	270
Gandier, Alfred	12	272
Gertrude, Abbess of Nivelles	15	358
Gioberti, Vincenzo	15	491
Gonzaga, Cecilia	11	191
Granovskii, Timofei Nikolaevich	13	134
Gregory of Tours	13	449
	15	358
Gronovius, Jakob	13	485
Gronovius, Johann Friedrich	13	485
Gruppe, Otto Friedrich	13	505
Gruter, Jan	13	505
Gruytere, Jan	13	505
Guarino of Vernon	13	516
Gutsmuths, Johann Kristoph Friedrich	13	581
Hinojosa y Naveros, Eduardo de	14	199
Jacotob, Jean Joseph	15	598
Jahn, Friedrich Ludwig	15	596
	22	31
Jannaris, Anthony	15	614
Kampen, Jan von	16	288
Klöden, Karl Friedrich von	16	473
Kölbing, Eugon	16	510
La Peltrie, Marie Madeline de	16	579
La Salle, Jean Baptiste de	16	581
	26	310
Lambeck, or Lambeccius, Peter	16	672
Lambinus, Dionysius	16	675
Lambruschini, Raffaele	15	492
Larramendi, Manuel de	16	752
Latino, Emanuele	15	493
Lattmann, Julius	17	98
Laurie, Simon Somerville	17	111
Lomonosov, Mikhail Vasilievich	17	618
Macallum, Archibald Byron	18	7
Macé, Jean	18	42
Madvig, Johan Nikolai	18	110
Maintenon, Françoise d'Aubigné	11	655
	18	151
Meilleur, Jean Baptiste	18	507
Menander	18	620
Mikkelsen, Aksel	19	52
Montessori, Maria	15	497
	19	404
Muir, John	19	550
Müller, Johann	11	194
	19	557
Nicholas of Cusa	8	332
	11	194
Ollion, Henri	20	667
Ozanam, Frederick	21	85
Parravicini, Alessandro	15	492
Pázmány, Peter	21	435
Pestalozzi, Johann Heinrich	5	37
	21	654
Pidal, Ramón Menédez	22	71
Platter, Thomas	22	239
Pollio, Caius Asinius	17	355
	22	323
Qvigstad, Just Knud	23	101
Ratichius	23	227
Ratke, Wolfgang	23	227
Raumer, Karl Georg von	23	231
Rayneri, Giambattista Antonio	15	491
Reuchlin, Johann	11	191
	23	437
Rhees, (Benjamin) Rush	23	456
Ritsch, Friedrich Wilhelm	23	542
Rodríquez y Fernández, Theodoro	23	623
Saint Catherine	11	559
Salzmann, Christian Gotthilf	24	217
Scotus, Clement	15	360
Scotus Erigena	15	360
	24	448
Scotus, Joseph	15	360
Serbati, Antonio Rosmini	15	491
Sexton, Frederick Henry	24	630
Sicard, Roch Ambroise Cucurron	8	531
	24	776
Sierra, Justo	24	794
Spello, Vitale Rossi Di	15	492
Sturm, Johannes	25	758
Sturm, John	13	587
Sturmius, Johannes	25	758
Thou, J. A. de	19	739
	26	590
Tommaseo, Niccolò	15	492
	26	683
Tusco, Eduardo	15	498
Veniali, Francesco	15	493
Verbeck, Guido Fridolin	28	12
Wessely, Hartwig	16	117
William of Champeaux	27	216
Willibrord	15	357
Wimpfeling, Jacob	11	191
Yung Wing	4	611
	29	676
Zenos, Andrew Constantinides	29	701
Ziller, Tuisken	29	709
Zschokke, Johann Heinrich Daniel	29	735
Zunz, Leopold	16	117
	29	740

ENGINEERING

General	Vol.	Page
Air, pressure of	23	2
Aquifer	2	112
Arch, deep end construction	11	254
reinforced end-construction	11	253
side-construction	11	253
Ashlar facing	18	390
Architecture and construction, library	17	386
Arrangement of pipes and appliances	22	257
Artificial stones	2	363
	4	714
Asbestos	2	376
	11	251
Automatic sprinkler	11	245
Axis	10	349
Ballooning	4	171
Batli	10	349
Beam protection	11	255
Beams	11	255
Bearer	10	349
Bearing	3	382
	10	349
Bear trap	5	482
Block	4	91
Blocking or blocking-up	10	349
Blocks, plaster	11	254
Blowpipe	4	121
Bonding	4	171
Bond stones	18	391
Brash wood	4	711
Brick	4	489
	11	254
	18	391
Bristol	4	551
Brickwork	11	250
	18	391
Bridging	10	349
Builders' derrick	8	716
Builders' hardware	13	702
Building and masonry	18	389
Building, character of	11	251
construction of	11	244
codes, State	4	708
inspection	11	244
laws	4	708
materials	4	710
	11	250
stone	5	442
in the United States	4	701
Buildings, concrete reinforced	11	250
Buildings, high factory	4	709
equipment of	11	246
mill construction	11	244
non-fireproof	4	704
Bureau of standards	4	507
Cadastral survey	5	131
Calcimine	5	158
	16	286
Caisson	5	150
pneumatic	11	537
Capacity	4	171
Carpentry	5	655
Ceiling	6	164
Cellars	17	578
Cement	6	189

General — cont'd	Vol.	Page
Portland	15	282
	22	398
Centering	6	214
Centring	6	214
Chains and chain making	6	246
Chimney	6	514
Chronometer	6	642
locks	17	560
Clapboard	7	32
Clock	7	118
Clocks, historical and celebrated	7	120
Cofferdams	11	537
Column protection	11	250
	11	254
Compensation balance, or pendulum	7	429
Concrete	7	464
	11	250
	11	254
columns	11	254
construction	7	467
fence	11	112
machine mixers	7	474
massive	7	470
mixing machine	21	427
pavements	21	428
piles	11	534
plain	7	470
reinforced	2	150
	7	471
roads	7	470
roof construction	11	251
walls	7	470
Conduit	7	484
Construction, slow-burning	4	702
steel-skeleton	4	702
Corrosion	4	171
	8	19
Currugated-iron doors	11	255
Corundum wheels	11	98
Creosoting	29	239
Crib and open caisson	11	537
Curtain walls	11	253
Cushion of air	28	6
Cylinder construction	29	240
Datum or datum line	10	350
Dead weight	24	103
Decimal balances	29	161
Deflector	17	578
Destructive agencies	7	469
Direct sunlight	22	19
Door	9	262
Dovetail	9	286
Dredging in wells	11	540
Drills and drilling	9	336
	26	697
diamond	4	273
rock	15	283
Draughting devices	18	507
Drummond light	9	353
	13	576
Efflorescence	7	469
	9	720
Eiffel Tower	10	27
Elevators	10	225
	11	252
belt-driven	10	226

General — cont'd	Vol.	Page
electric	10	227
hydraulic	10	226
steam	10	226
Emery wheels	11	98
Encaustic tiles	10	314
	19	214
Engineering	10	346
civil	6	728
field of	6	728
education	9	615
electrical	10	150
hydraulic	14	541
instruments	10	346
laboratory	16	618
mining	19	179
sanitary	24	262
schools	13	313
terms	10	349
Epistylium, or epistyle	10	435
Exposure hazard	11	252
Exposure hazard, control of	11	246
Exterior finishes	4	705
Factor of safety	10	350
Files	11	206
Fire brick	11	234
Fire causes, study of	11	247
Fire doors	11	255
Fire-escape	11	235
	11	252
Fireproofing	4	704
Fireproof construction	11	249
safe, first	15	282
Fireproofing of steel roof trusses	11	250
Fireproof structures	11	245
Fire protection	11	244
prevention	11	243
Prevention Day	11	243
Prevention League	11	243
prevention measures	4	708
protective devices	11	245
Protection Association, National	11	245
Fire resisting construction	11	249
	11	257
Fire-resisting windows	11	255
retardant wood	11	251
shutters	11	255
walls	11	252
Flanging	4	172
Flattened strand ropes	29	415
Flemish bond	11	346
Flexure	11	351
Flexure-plate scale	29	162
Float	4	172
	11	359
Floor	11	361
	11	255
construction	11	250
noncommunicating	11	252
Foot-pound	11	455
Force	10	350
	11	462
Forge	11	487
	11	543
Forging	11	487
Foundations	11	533
clay soil	11	534

General — cont'd	Vol.	Page
peat soil	11	534
platform	11	537
pneumatic forcing method	11	540
sand soil	11	534
soil	11	534
skycraper	11	537
subaqueous	11	537
Furnaces	25	704
Gateway	12	337
Girders	11	255
	12	665
Glass	11	251
Graphic statics	10	351
	13	146
Graphophone	13	152
	15	285
	26	226
Green woods, strength of	4	711
Gutter	13	382
Heaters, feed-water	11	92
Honeycombing	4	172
Horse power	10	351
Houses, floating	11	358
Illumination from an open-arc steel lamp	22	13
Incandescent lamp	22	11
	22	12
	22	13
Inclined plane	14	740
	18	508
Incombustible fabrics	14	741
Incrustation	4	172
Inertia	10	351
	15	111
Insulation	15	175
Integrators	15	204
Interior court	11	252
decoration	15	217
finishes	4	706
Inventions	14	278
	15	281
Iron, cast	11	250
	15	366
castings, malleable, process of making	15	282
quality of, for castings	11	547
skeleton construction	15	382
wrought	11	250
	15	366
Isolation of special hazards	11	253
Joinery	16	188
Jalousies	29	384
Kalamine doors	11	255
Kalsomine	16	286
Kinetic energy	10	328
Lapping	13	478
Lap welding	25	604
Lever	17	328
	18	502
Lifting	11	544
Light, standards of	22	9
Lime	17	440
Limelight	17	484
Load	10	351
Map	18	253
Masonry and building	18	389
Masonry fence	11	112
Massive concrete	7	470
Material, reduction of combustible	11	253
Materials, strength of	10	351
	25	730
Matter	18	440
Measurement of power	9	461
Metal lath and plaster	11	254
Modulus	10	351
Mortar	19	485
	19	191

General — cont'd	Vol.	Page
and plaster	11	251
screens	19	191
Open light-well	11	252
timber roofs	23	679
Openings, vertical	11	252
Oxyhydrogen blowpipe	13	576
Oyster shells	24	685
Paint for steel	25	587
Paint tests for structural steel	25	590
Painting structural steel	25	589
Panel	21	243
Pavements	21	427
asphalt	21	427
bithulithic	21	427
concrete	21	428
foundation	21	427
granite block	21	428
macadam	21	428
Telford	21	428
treated wood block	21	428
vitrified brick	21	428
Physical properties of timber	4	710
Piles	22	81
concrete	7	472
disc	11	534
driver	22	84
foundations	11	534
iron	11	534
screw	11	534
	22	84
spruce	11	536
supporting power of	11	535
timber	11	534
Pipes and appliances, arrangement of	22	257
Pipe system and appliances	22	257
Pitch in carpentry	22	120
in mechanics	22	120
of roof	19	679
Planimeter	22	151
Plastering	22	224
Plate-iron doors	11	255
Plumb line	22	258
Plumbing and steam-fitting	22	256
Plumbing fixtures, improvement in	22	256
Plumbing, sanitary	22	257
Plummet	22	258
Porch	22	372
Power	10	351
	22	470
Pressure	4	172
	10	351
Pressure of the air	23	2
Protective devices	11	253
Pulley	22	795
principle of action	22	795
static equilibrium	22	796
Quadrant	17	579
Radiators	22	257
Resistance	10	351
Rivet	10	351
Riveter	22	265
Rivet-set	22	265
Rock drill	23	593
	23	594
Rock drilling	23	593
Rolling mills, products of	23	638
Roof	23	678
Sand blasts	22	266
	24	250
	25	587
box	17	579
Scale-beams	29	161
Sector	24	521

General — cont'd	Vol.	Page
Service pipe	22	256
Shingle	24	714
Shingles, cedar	24	714
Sleeper	25	96
Soffit tile beam protection	11	255
Soil pipes, method of ventilating	22	257
Solaria	22	18
Spile	22	84
Stair	25	471
Stairways	11	252
Standards of light	22	9
Static	10	351
Statistical systems	13	148
Steel	11	250
	25	562
cleaning	25	587
preservation of structural	25	586
rolling doors	11	255
skeleton construction	4	702
tape line	26	97
Stone	4	712
	11	250
	25	679
artificial	2	363
cutting and dressing	25	684
fence	11	112
sorel	11	251
Stoves and heating apparatus	25	702
Stress	10	351
Structures, fireproof	11	245
semi-fireproof	11	244
statically determinate	13	149
Surface treatment	7	469
Surveying instruments	26	96
chain	26	91
compass	26	91
land	26	98
mines	26	94
photographic	26	95
plane	26	91
topographical	26	93
traverse	26	92
Tacheometry	26	202
Template	10	351
Tension	10	351
Terra-cotta	11	250
	11	254
	26	445
Testing	4	173
	10	351
machines	25	729
Timber	4	710
physical properties of	4	710
Tin-clad doors	11	255
Tires	17	580
	26	644
Tower clocks	7	120
Transit	26	98
Underwriters', laboratories	11	246
Unit	10	351
	27	565
United States Bureau of Standards	4	507
Walls	11	253
self-supporting	11	253
Waste pipes	22	257
Water-closets	22	257
Waterproofing	7	469
	29	77
Wharves and wharf construction	29	237
Boston	29	238
New York	29	237
Philadelphia	29	238
Whitewash	29	277
Windmill	15	395
	29	380

General — cont'd	Vol.	Page
Windmill power	11	37
Windlass	29	380
Window	29	384
Wine press	29	386
Wireglass	11	251
	29	413
Wire mesh	11	251
Work	10	351
Working drawings	9	315
	9	316

Civil Engineering

AQUEDUCTS, CANALS, ETC.

Ancient aqueducts	2	107
tunnels	27	156
Anio novus	2	107
vetus	2	107
Apulian aqueduct	29	56
Aqua Appia	2	107
Augusta	2	108
Claudia	2	107
Marcia	2	107
Tepula	2	107
Aqueducts	2	107
	10	349
ancient	2	107
Arch dam	8	441
Arlberg tunnel	27	148
Arrowhead dam	8	436
Arrowrock dam	8	440
	14	556
	15	393
Artificial channel	5	481
Ash Fork dam	8	439
Ashokan dam	8	440
reservoir	2	387
	29	61
reservoir and aqueduct	19	588
Assouan	2	426
dam	8	440
reservoir	29	59
Astoria gas tunnel	27	153
Athens, aqueducts of	2	107
Bahr El Yusuf	3	48
Baltimore Belt Line tunnel	27	160
Barcelona dam	8	441
Barge Canal, New York State	3	247
Barossa dam	8	441
Base bars	26	97
Bear Valley dam	8	441
Belle Fourche dam (South Dakota)	8	435
Bench-mark	3	501
Bergen Hill tunnels	27	165
Big Bear Valley dam	8	442
Bilbo tunnel	27	151
Bituminous macadam	13	55
Bubble tube	26	97
Blackwell tunnel	27	152
Boulé gate	5	482
Bracing	4	515
Breakwater, Buffalo, N. Y.	13	694
Cherbourg, France	13	693
Colon, Panama	13	692
Marseilles	13	693
Breakwaters	13	691
Bridge dams	8	438
Bridgewater canal	5	484
Brière canal	5	484
Brushwood dams	8	436
Butterfly dam in the Chicago Drainage Canal	8	439
Cable, first Atlantic	4	538
Cableways	23	158
Caer dyke	5	484
Caisson	5	150
pneumatic	11	537

Aqueducts, Canals, etc.— cont'd	Vol.	Page
Calaveras dam	8	436
Caledonian canal	5	190
	5	484
	13	311
Canal construction	5	454
	5	482
dimensions, determination of	5	482
engineering	14	554
Canals	5	481
Canyon Ferry dam	8	436
Carro dam	8	438
Carthage	2	108
Cascade tunnel	27	151
Catskill aqueduct	2	109
	27	154
Cayuga and Seneca canal	3	248
Champlain canal	3	248
Chanoine gate	5	482
Chesapeake and Ohio canal	5	485
Chestnut Hill reservoir	29	60
Chicago Bear-trap dam	8	438
Chicago drainage canal	5	486
sanitary district canal	5	487
Cistern	6	669
Cleveland water works tunnels	27	153
Clichy sewer tunnel	27	163
Clinometer	7	113
Clinton's big ditch	7	116
Cloaca	7	117
Coast survey	26	101
Columbia dam	8	436
river highway	7	337
river jetty	16	47
Compensating planimeter	22	152
	26	97
Compensation bar	7	234
Complete lockage	5	482
Concrete arches	4	517
Conduit	7	484
standard types of	2	110
Construction of the main Roman roads	23	558
Continental divide	27	151
Contour	7	593
Côte d'Or tunnels	27	151
Cross-town tunnels	27	165
Croton dam	8	243
aqueduct	2	109
	8	243
	13	428
Culebra Cut	21	238
Culvert	8	297
Curtain dams	8	438
Dalles-Celilo canal	5	487
Dams	8	433
	15	100
movable	5	482
See also under Hydraulic Engineering.		
Dams and canals	14	554
Danish canal	5	484
Delaware and Hudson Canal	5	487
Delaware and Raritan canal	5	487
Deep-well cases	23	2
Determination of canal dimensions	5	482
Detroit river tunnel	27	154
Drainage	9	297
	23	155
works	15	398
Direct-acting cranes	14	540
Ditches	8	434
Douglas dam	8	442

Aqueducts, Canals, etc.— cont'd	Vol.	Page
Du Bois dam	8	438
Dyke	9	454
Earth dams	8	434
Earliest artificial water channels	5	484
Early canals	5	483
East Boston tunnel	27	163
East canal	27	270
East River tunnels	27	165
Elastic failure	25	732
Elasticity	10	48
	25	728
Elephant Butte dam	10	222
Elevated and subway construction	23	166
Elevation of curves	23	156
Engineer's chain	26	97
Engineering	10	346
civil	6	728
hydraulic	14	541
harbor	13	683
	14	545
instruments	10	346
irrigation and drainage	14	543
river regulation	14	546
water supply	24	262
Equivalent simple stress	25	732
Erie canal	5	485
Evolution of road construction	23	557
Excavation	10	617
Extensometers	25	730
Facing and trailing points	23	159
Fascine	11	50
Felice aqueduct	29	55
First Atlantic cable	4	538
canal in the United States	5	485
general canal for passengers	5	485
State map (based on surveys)	9	50
Flood prevention	14	546
protection	14	546
Flooding	15	395
Flume	11	402
Forth and Clyde canal	5	484
Fortieth parallel survey	26	100
Foss dyke	5	484
Franzenskanal	12	20
Geodetic level	26	96
survey	26	101
Geodesy	26	94
Geographical survey	26	100
Gaillard Cut	21	238
Galveston jetties	12	258
sea-wall	12	258
Ganges canal	12	273
Gatun dam	21	237
General land office	26	101
Gilboa reservoir	29	61
Giovi tunnel	27	151
Good roads movement	13	52
Gotha canal	5	484
Government land surveying	26	92
Grade crossings, elimination of	13	104
Graduations	26	96
Grand canal	5	484
canal of China	5	484
junction	5	484
Graveholz tunnel	27	152
Great Davis lock	24	319
Gunnison tunnel	27	270
Gunter's chain	13	573
	26	97
	29	165
Hallidie cable system	13	366

Aqueducts, Canals, etc.— cont'd	Vol.	Page
Hamburg water supply..	29	55
Harbors	13	688
	14	545
Harlem River tunnels...	27	156
Haskins tunnel	27	152
Hell Gate	14	83
Hennepin canal	5	486
Hooke's law	25	731
Hoosac tunnel	14	370
	24	658
	27	151
Hudson-Manhattan tunnels	27	152
Hydrographic surveying	26	94
Hydrostatics	14	585
Illinois and Michigan canal	5	486
Inclined planes	5	482
	14	740
Inland waterway	8	609
Irrigation	15	393
cost of water	15	398
furrows	15	395
Isthmian surveys	26	101
James and Ohio canal..	5	485
James River and Kanawha canal	5	486
James River, Appomatox canal	17	97
Jetties	16	46
Jura tunnel	27	151
Kennet and Avon (canal).	5	484
Kensico dam	2	111
Kiel canal	16	279
Kojak tunnel	27	152
Lake Washington canal.	5	487
Languedoc canal	5	484
Laws of elasticity	25	728
Leeds and Liverpool canal	5	484
Levees	17	327
	23	548
Leveling	26	96
Lift gate	5	482
Lines and surface of an arch culvert	23	155
Lining of tunnels	27	159
Link	29	165
Lock	5	481
	5	483
Lock, canal plan	21	287
Locke level	26	98
Locks at Gatun	21	237
Longest tunnel in the United States	14	370
Macadam pavements	21	428
Macadamized roads	13	55
McAdoo tunnels	27	153
Marcia aqueduct	29	56
Marianopoli tunnel	27	151
Mississippi and Missouri river commissions	26	101
Mitre gate	5	481
	5	482
Mole	19	311
Mont Cenis tunnel	27	146
Morris canal	5	487
Movable dams	5	482
Mussel Shoals canal	12	752
Natural drainage lines..	23	158
Navigation canals	5	481
Nerthe tunnel	27	151
New Erie canal	3	248
New York Barge canal..	5	482
	5	483
New York connecting railroad	4	510
leveling rod	6	97
rapid transit tunnels	27	154
river tunnels	27	152
subways	25	777

Aqueducts, Canals, etc.— cont'd	Vol.	Page
Nicaragua canal	20	307
North River tunnels	27	165
Ohio and Erie canal	5	487
Ohio Falls canal	5	487
Operation of the larger canal structures	5	482
Orléans canal	5	484
Oswego canal	3	248
Panama canal	12	752
	21	233
plan of organization	21	235
Pantograph polar planimeter	22	152
Paolo aqueduct	29	56
Paris subways	25	777
Pavements	21	427
Pavements, concrete foundation	21	427
Peninsular canal	5	481
Pennsylvania railroad extension tunnels	27	164
Pilot method of tunneling	27	159
Plane stresses	25	731
table	26	98
table surveying	26	95
Plummet	22	258
Pneumatic caissons	15	283
Poe lock	24	319
Poirée needle dam	5	482
Poisson's ratio	25	729
Pont du Gard	2	108
Potomac and Ohio canal	5	485
Power	5	483
	22	478
Pracchia tunnel	27	151
Pressure tunnel	2	109
Punjab triple canal system	29	59
Reclamation service, construction results	27	561
Removal of ground water	24	265
Retaining wall	23	428
River bank protection by revetment	23	548
River channel, methods of improvement	23	548
River engineering	23	547
	23	549
improvement	23	548
regulation	14	546
Riverside irrigation systems	23	554
Roads and highways	23	557
Austria-Hungary	23	561
Canada	23	561
France	23	561
Great Britain	23	561
Germany	23	562
Italy	23	562
Norway	23	562
Russia	23	562
Spain	23	562
Sweden	23	562
Switzerland	23	562
United States	23	559
	23	560
	23	561
Roadbed	23	158
Road drag	13	55
Rock tunnels	27	158
Rogers Pass tunnel	27	151
Rolling gates	5	482
Roman roads, construction of	23	558
Roosevelt dam	23	685
military highway	23	685
reservoir	15	393
Rotherhithe tunnel	27	152

Aqueducts, Canals, etc.— cont'd	Vol.	Page
Rove tunnel	27	151
Royal canal	5	484
Saint Clair tunnel	13	130
Saint Gotthard tunnel..	27	147
Sanitary engineering	24	262
Sarnia tunnel	27	163
Schuylkill Coal and Navigation Company's canal	5	487
Segovia aqueduct	2	108
Severn tunnel	27	161
Sewage disposal	24	264
Sewage velocity	24	265
Shear	25	728
Ship canal	5	481
Siloah	25	10
Siloam	25	10
Simplon tunnel	25	27
Sluice	25	101
South canal	27	270
Speaking rods	26	97
Speed	5	483
Spoleto	2	108
Stampede tunnel	27	151
Standridge tunnel	27	151
Steel tapeline	26	97
Stockade	25	659
Stone Mountain tunnel..	27	151
Strain	25	728
Street	25	724
Strength of materials	25	728
Stress	25	728
Stress relations	25	731
Stress-strain diagrams..	25	731
Subaqueous tunnels	27	161
Subirrigation	15	396
Subway planned in Boston, first	25	777
Subway system (New York)	25	778
Subways, history of	25	776
Suez canal	5	484
	15	283
	25	789
Summit levels	5	484
	5	486
Surveying	26	91
instruments	26	96
Surveys	23	157
Surveys of Ireland	7	234
Surveys, United States governmental	26	98
Sutro tunnel	27	151
Taintor gate	5	482
Telford pavements	21	428
Telpherage	16	13
	26	402
Tempoalo aqueduct	4	499
Tequixquiac tunnel	27	152
Thames tunnel	4	633
Thirlmere aqueduct	2	108
Timbering of tunnels	27	159
Topographical surveying	26	93
Treated wood block pavement	21	428
Trent and Mersey canal	5	484
Tumble-gate	5	482
Tunnel pressure	2	109
Tunnels	23	160
ancient	27	156
and tunneling	27	156
great modern	27	146
lining of	27	159
modern	27	157
river and lake	27	152
Tunneling by the use of a shield	27	161
Tunneling, pilot method	27	159
Uncompahgre Valley project	27	270

Aqueducts, Canals, etc.— cont'd	Vol.	Page
Underground railway	21	318
	25	776
	27	156
sewers (Paris)	21	318
United States boat canals	5	485
bureau of standards	4	507
Vergine aqueduct	29	55
Via mala	28	55
Vitrified brick pavements	21	428
pipe culverts	23	155
Wachusett aqueduct	29	60
Washington aqueduct	4	510
West canal	27	270
Western Inland Lock Navigation Company	5	485
	5	486
Working stress	25	733
Yield point	25	731

BRIDGE

Bridge — cont'd	Vol.	Page
Abutment	10	349
Alcantara	1	342
Alexander III Bridge	4	500
	4	522
Arches	4	522
Arch bridges	4	516
Arthur Kill drawbridge	4	503
Auckland arch	4	505
Auteuil bridge	21	314
Baltimore truss	4	512
Bascule bridges	4	528
Benares bridge	11	540
Black Friars bridge	4	498
Blois bridge	4	498
Brethern of the Bridge	4	497
	4	498
Bridge	4	171
	4	496
	10	349
Bridge Building Brotherhood	4	506
Bridge construction, American	4	506
Bridge construction, modern methods of	4	511
Bridge designs, railway	4	519
floors and floor systems	4	514
Bridge shops and shop practice	4	522
Bridges	23	158
arch	4	516
bascule	4	528
cantilever	4	521
concrete	4	504
	7	465
girder	4	514
lift	4	503
	4	527
movable	4	503
	4	513
pontoon	4	504
steel, partial list of the largest spans	4	522
suspension	4	515
	4	522
	13	130
vertical lift	4	530
Britannia bridge	4	502
tubular bridge	1	684
	4	553
Brooklyn bridge	4	511
	4	521
	23	625
Suspension bridge	15	374
Brown Bascule bridge	4	528
Cabin John bridge	4	499
Canadian Pacific Railway bridge	4	509
Cantilever	10	349
bridges	4	521
concrete bridges	7	466
trusses	4	513
Cantilevers	4	522
Carrollton viaduct	4	499
Charles River bridge	4	511
Concrete bridges	4	504
	7	465
Continuous trusses	4	513
Conway bridge	4	502
Covington bridge	4	500
Croyland bridge	4	498
Deck bridge	4	514
Detroit-Superior bridge	4	500
Detroit-Superior viaduct	4	510
Double deck bridge	4	514
Double-Leap Bascule bridge	4	511
Double Intersection Warren truss	4	512
Drawbridge	9	314
Drawbridges	4	503
	23	157
Draw spans	4	522
First steel bridge	25	130
Flat arches	4	517
Folding Lift bridge	4	528
Forth bridge	4	503
Franklin bridge	2	150
Fribourg bridge	4	500
Garabit viaduct	4	500
Gignac bridge	4	498
Girder bridges	4	514
	4	512
	7	466
Gokteik viaduct	4	522
Grosvenor bridge	4	498
Hawkesbury bridge	11	540
Hell Gate arch	4	508
bridge	4	500
	4	510
High bridge	2	109
	4	499
Highway bridges	4	503
Howe truss	4	519
	4	512
I Street bridge	4	506
Illinois Central Railroad bridge	4	510
International bridge	13	130
Interstate bridge	4	503
Jackknife bridge	4	528
Kansas City bridge	4	510
Kelso bridge	4	498
Kentucky viaduct	4	502
K system	4	509
K truss	4	513
Lake Shore and Michigan Southern Railway bridge	4	511
Langwies viaduct	4	505
Larimer Avenue arch	4	505
Larimer Avenue bridge	4	510
Lenticular truss	4	513
Lift bridges	4	503
	4	527
London bridge	4	498
Long Island Railroad viaduct at Forest Hills, L. I.	4	503
Luxemburg bridge	4	498
Manhattan bridges	4	501
	4	521
Martin's Creek viaduct	4	505
Memorial bridge	4	506
Memphis bridge	4	503
Memphis Cantilever bridge	4	508
Menai Strait bridge	1	684
Military bridges	4	504
Movable bridges	4	503
	4	513
Muallak Kemer	2	108
Municipal bridge	4	508
Nadria bridge	2	109
Neuilly bridge	4	498
New York and Brooklyn Suspension bridge	4	500
Niagara bridge	4	500
Falls double-track steel arch bridge	13	130
International bridge	13	599
No-hinged arch	4	516
Old Trails Arch bridge	4	500
Open floor	4	514
Oregon-Washington Railroad and Navigation Company's bridge	4	510
Parker truss	4	512
Pennsylvania truss	4	512
Pettit trusses	4	512
Pia Maria bridge	4	500
Pittsburgh cantilever	4	522
Plauen bridge	4	498
Pont du Gard	2	150
Ponte Vecchio	4	497
Pontoon bridges	4	504
Pont Mativa	4	505
Pont-y-Prydd	4	498
Poughkeepsie bridge	4	502
Pratt truss	4	519
	4	512
Quebec bridge	4	524
	4	501
Cantilever bridge	4	508
Queensboro bridge	4	501
	4	509
	4	520
Railway bridges	4	503
Rall bascule	4	529
Red Rock Cantilever bridge	4	502
Reinforced concrete arches	7	465
Rialto bridge	4	497
	23	481
Risorgimento arch	4	505
bridge	4	502
Rock Island bridge	23	596
Roller-bearing bascules	4	529
type	4	528
Rolling bridge	4	503
lift	4	520
	4	528
	4	529
Saint John River cantilever	4	503
Saint Lawrence bridge	4	509
Saint Lawrence River cantilever	4	521
Saint Louis Municipal bridge	4	509
Saskatoon viaduct	4	505
Schuylkill River bridge	4	509
Simple trusses	4	512
Sixty-sixth Avenue arch	4	506
Slab bridges	7	466
Southwark bridge	4	499
Spar bridges	4	504
Starucca bridge	4	499
Steel trusses	4	517
Stein-Teufen arch	4	505
Strauss bridge	4	528
Strauss Direct-Lift bridge	4	530
Suspension bridge	13	130
	4	515
	4	522
Swing bridge	4	503
Swiss Sitter River viaduct	4	502

Bridge — cont'd	Vol.	Page
Thames river draw-bridge	4	503
Three-hinged arch	4	516
Through bridge	4	514
Tower bridge	4	504
Towne lattice spans	4	519
Trilport bridge	4	498
Trunnion type	4	528
Truss bridges	4	512
Trusses	4	517
Tunkhannock viaduct	4	510
Tunkhannock Railway viaduct	4	503
Two-hinged arch	4	516
Victoria bridge	4	502
Verrugas viaduct	28	35
Vertical lift bridges	4	530
Viaur arch	4	522
Victoria tubular bridge	13	130
Waddel and Harrington bascule	4	529
Walnut Lane arch	4	505
Warren truss	4	512
Washington bridge	4	500
Waterloo bridge	4	499
Wearmouth bridge	4	499
Westminster bridge	4	498
Williamsburg bridge	4	500
	4	511
	4	522
Suspension bridge	11	538
Winston bridge	4	498

RAILWAY

Railway — cont'd	Vol.	Page
Air brake	1	277
electric traction equipment	1	284
freight equipment	1	280
locomotive equipment	1	280
passenger equipment	1	282
American Railway Engineering Association	4	507
American street railways	1	564
Atmospheric railway	22	267
Automanual blocking system	4	92
Automatic blocking	4	93
Automatic coupler	5	577
	5	581
Baggage cars	5	580
Ballasting	23	155
Bell code	4	98
Block signal system	4	91
Block system, absolute permissive	4	93
Blocking, automatic	4	93
controlled manual	4	92
Box cars	5	578
	5	580
Buffer	4	695
Bumping post	5	22
Business car	5	579
Cab	17	578
handles	17	578
Cable car	15	284
Caboose	5	126
Car building	5	575
industry	5	575
statistics	5	581
Cars, baggage	5	580
combination	5	580
dump	5	580
features of construction	5	581
flat	5	580
freight	5	580
	23	140
heating	23	142
hopper	5	580
lighting	23	142
Pintsch system	22	104
observation	5	579
parlor	5	579
passenger	5	579
	23	140
sleeping	5	579
	23	141
special service	5	580
statistics of	5	581
street railway	5	581
Closed track circuit	4	96
Controlled manual blocking system	4	92
Coupler	17	578
Coupling rods	17	578
Cow catcher	17	578
Curves, elevation of	23	156
Curving rails	23	157
Drainage	23	155
Draw bar	5	577
	17	578
bridges	23	157
Dump cars	5	580
Dynagraph	9	455
Electric motor mechanisms	4	98
Electric slot	4	92
Electric traction equipment	1	284
Electro-gas apparatus	4	98
Electro-pneumatic system	4	97
Flat cars	5	580
Freight brake equipment	1	280
Freight cars	5	577
	5	580
	23	140
Frog	23	156
Frogs and switches	23	156
Front rail	17	578
Gauging	23	155
Grade crossings	23	157
Hall automatic block system	4	96
Headlight	17	579
Hopper cars	5	580
Interlocking signals	4	94
Iron rails, first used	23	154
Locomotive	5	576
	17	565
air brake equipment	1	280
boiler performance	17	576
combustion chamber	17	572
compound	17	576
cylinder performance	17	576
feed-water heaters	17	574
fire-box	17	572
fuels	17	569
coal	17	570
coke	17	571
oil	17	569
wood	17	569
geared	17	577
history of	17	565
industry	17	580
mechanical stokers	17	573
modern, economy of	17	576
performance	17	574
present day	17	567
principal parts of	17	577
super-heaters	17	573
types	17	568
freight	17	569
passenger	17	569
switching	17	569
valve gears	17	573
water for	17	572
Manual blocking system	4	92
Master Car-Builders' Association	5	579
Mozier manual blocking system	4	92
Non-following block	4	92
Non-meeting block	4	96
Observation cars	5	579
Outdoor signals	4	95
Parlor car	5	579
Passenger brake equipment	1	282
cars	5	577
	23	140
Pintsch system (lighting)	22	104
Pullman cars	5	577
	5	580
Quantities of material per mile of single track	23	154
Rail-curving machine	23	157
Railroad crossings	4	95
junctions	4	95
surveying	26	95
trestles	7	466
Rails and structural shapes	23	138
Rails, laying of	23	156
Railway	5	576
air brake	1	277
	15	284
cars	5	579
	23	140
heating of	23	142
lighting of	23	142
Pintsch system	22	104
construction	23	154
ballasting	23	155
bridges	23	158
cableways	23	158
crossovers	23	159
culverts, vitrified pipe	23	155
curves, elevation of	23	156
curving rails	23	157
drainage	23	155
draw-bridges	23	157
facing points	23	163
frogs	23	156
gauging	23	155
laying rails	23	156
roadbed	23	158
safety appliances	23	157
spiking	23	155
storage tracks	23	159
switches	23	156
switch stand	23	159
trailing points	23	159
tunnels	23	160
turnouts	23	159
wave motion	23	156
engineering	23	154
surveys	23	157
Railways, elevated	23	163
of the United States	23	173
street	23	171
underground	25	776
Signal towers	4	92
Signals, interlocking	4	94
outdoor	4	95
Sleeping cars	5	579
	23	141
Smoking cars	5	579
Special service cars	5	580
Spiking	23	155
Split switch	23	159
Stock cars	5	580
Street railway cars	5	581
Stub switch	23	159
Subways	25	776
construction	25	778

Railway — cont'd	Vol.	Page
Subways, operation	25	780
Switch	10	351
	23	156
stands	23	159
Sykes system of block signaling	4	98
Tank cars	5	580
Tourists' cars	5	579
Tunneling	27	156
pilot method	27	159
shield method	27	161
Tunnels	27	146
	27	152
	27	156
lining of	27	159
methods of operation	27	157
sub-aqueous	27	161
timbering of	27	159
Turnouts and crossovers	23	159
Wave motion	23	156
Westinghouse air brake	5	578
Wheels	5	577
Wrecking cars	5	581

Electrical

	Vol.	Page
Accumulator	1	81
application of	23	10
Air-blast transformer	1	276
Alkaline battery	10	121
Alternator	10	90
Alternating current generator	14	557
current motors	26	744
Ammeter	1	585
Ampere	10	167
Ampere turns	1	585
Amperemeter	1	585
Annunciator signals	10	118
Anode	2	5
Apomecometer	2	67
Arc furnace	10	107
lamp	10	165
Armature	2	266
	10	165
Arrhenius theory	10	194
Asynchronous generator	10	98
motor	10	165
Atlantic cables	5	122
Audion amplifier	8	593
Automatic fire-alarm signals	10	120
stations	22	490
telegraph repeaters	26	333
telegraph systems	26	334
transmission	5	124
Barclay printing telegraph	26	342
Baudot printing telegraph	26	342
Bellini-Tosi directive wireless signal system	26	356
Bell's photophone	22	15
	26	384
Bichromate	10	96
Blake telephone transmitter	15	284
Break circuit chronometer	4	452
Bright's bell	26	329
Brush	10	124
Brushes	12	380
Buckingham printing telegraph	26	342
Bunsen battery	10	97
Burglar alarm signals	10	118
Bus bars	10	165
Cable	5	121
Atlantic	5	122
Pacific	5	123
relays	5	125
submarine	5	122

Electrical — cont'd	Vol.	Page
Calcium carbide produced in electric furnace	15	285
Carbide slag	25	569
Cathode	2	5
	6	63
rays	10	179
Caustic alkali cells	10	96
Chemical automatic telegraphs	26	334
Chemical energy	10	169
Chronometer, break-circuit	4	452
Circuit breaker, electric	10	165
Circuit breakers	12	385
Closed circuit system	23	1
Coherer	7	216
	10	165
Colby process	25	569
Commutator	7	424
	10	165
	10	177
	12	380
Compound motor	10	165
generator	10	165
Conductors	10	170
Containers	10	129
Continuous current	10	165
Controller	10	165
Converter	10	165
rotary	10	165
Cooper-Hewitt lamp	14	162
quartz lamp	10	112
Copper oxide cells	10	96
Core	12	379
Coulomb	10	167
Current, alternating, frequency of	10	166
distribution of	26	743
Cut-out, electric	10	165
Davy arc light	10	110
De Forest wireless telephone	26	386
De Forest wireless telegraph system	8	593
Dial telegraphs	26	340
Dictaphone	9	86
Dictograph	9	90
Dielectric	9	95
Differential lamp	10	111
Direct-current railway motors	26	741
Directive wireless signaling	26	356
Discharge	9	150
phenomena	10	133
Distribution of current	26	743
Double fluid galvanic battery	15	282
Dry batteries	10	97
pile	9	361
Dry pile (prototype of dry battery)	15	282
Duplex system	5	124
telegraphy	10	165
	26	336
telegraph	15	283
Dynamo electric machine	15	284
brushes of	10	165
Dynamometer, Flather transmission and absorption	9	466
Dynamometer car	4	457
Dynamometers	9	461
Dynamo static machine	10	114
Economical transmission of power by electricity	22	496
Edison carbon incandescent lamp	10	112

Electrical — cont'd	Vol.	Page
Edison cell	10	122
	10	131
primary battery	10	96
Efficiency of storage batteries	10	134
of an apparatus	10	165
of a dynamo	10	165
of a machine	10	165
Efficiency of a translating device	10	165
Efficiency of transmission	22	480
Electrical alarm	10	150
Electrical apparatus inventions	21	387
attachments	19	650
diapason	10	150
energy, fluctuations in	26	556
engineering	10	150
Electrical equipment of a modern power station	22	486
Electrical glass plate machine	15	281
Electrical industries of the United States	10	152
Electrical laboratory	16	618
lighting	10	110
	10	116
manufacturing industry	10	151
measuring instruments	10	159
Electrical phenomena	15	281
Electrical power and construction appliances	18	507
Electrical propulsion	5	483
resistance, law of	15	282
ships	10	159
terms	10	165
units	10	167
Electric alternating current machinery	10	90
Electric annealing	10	94
annunciator	10	94
arc	10	94
aura	10	94
balance	10	94
bath	10	94
batteries	10	94
constant	15	283
bell	10	97
candle	10	98
	15	284
clocks	7	119
condenser	10	98
conductivity	10	99
controller, general	26	742
detector	26	346
direct current	10	99
discharge	10	102
drill	10	103
drive in rolling mill	23	638
egg	10	103
escapement	10	103
	25	579
farming	10	103
fixtures	10	113
fluid theory	10	106
furnaces	10	106
arc	10	107
commercial	10	108
electrolytic	10	147
incandescent	10	108
gas lighting	10	110
heater	10	110
jar	15	281
lamp, carbon filament for	15	284

Electrical — cont'd	Vol.	Page
light fixtures	10	166
lighting	10	110
locomotive	15	283
B. & O. Belt Tunnel X-rays	15	285
locomotives	26	744
machines	10	114
manufacturing industry	10	151
microphone	10	116
motor	10	116
	23	6
navigation	10	117
oscillator	26	346
pen	10	117
pendulum	10	117
plow	15	285
power	22	479
power distribution	22	479
railway motors, development of	26	741
railway statistics	10	156
repulsion	10	117
resistance	10	117
signaling	10	117
smelting	10	190
storage battery	10	121
Pasted types	10	124
Plante types	10	124
stress	10	137
telegraph systems	26	329
torpedo	10	137
traction	17	587
transmission of energy, long distance	10	137
typewriter	5	145
underground cables	10	139
underground conduits	10	139
	10	142
vegetable gardening	10	145
vehicles	10	146
waves	10	147
welding	10	147
wiring	10	113
Electricity	10	168
atmospheric	10	181
cause of death by	10	181
chemical energy of	10	169
conductors	10	170
contact theory of	10	182
diffusion of	10	182
dissipation of	10	182
effect of, on plants	10	173
energy, forms of	10	169
experimental researches	10	182
frictional	10	182
from heat	10	183
heat of	10	169
history and progress of	10	171
in quarrying	23	61
in United States	10	152
measurements of	10	170
physiological effects	10	170
storage	10	169
Electrics and non-electrics	10	183
Electrochemical equivalents	10	184
Electrochemical industries	10	183
series	10	193
Electrochemical telegraph	10	193
Electrochemistry	10	193
Electroculture of plants	10	197
Electrode	2	5
	10	197
Electrodynamics	10	197

Electrical — cont'd	Vol.	Page
Electrolysis	10	180
	10	197
	26	743
Electrolysis of gas and water mains	10	198
Electrolyte	10	129
	10	198
Electrolytic furnace	10	107
refining	15	285
Electromagnetism	10	198
Electrometallurgy	10	199
Electrometer	10	199
Electromotive force	10	200
Electromotograph	10	200
Electron theory	10	200
Electro-optics	10	210
Electrophorus	10	115
Electrophoto micrography	10	210
Electroplating	10	210
Electropoion	10	211
Electronic state	10	218
Electroscope	10	211
	15	282
Electrostatics	10	211
Electrotherapeutics	10	212
Electrothermal process	10	218
Electrotint	10	218
Electrotropism	10	218
Electrotype	10	218
Elevator, electric	10	227
Emergency signals	10	119
Enclosed arc	10	111
arc lamp	10	165
Energy from waterfalls	10	90
polyphase	10	91
Engineering	10	346
electrical	10	150
Excitation, methods of	12	381
Exide negative	10	125
Farad	10	168
Faraday's laws	10	194
Faure	10	124
Feed wires	26	743
Fessenden oscillator	25	765
Field coil connections	12	381
Field frame	12	380
magnets	12	380
Fire-alarm telegraph	15	283
telegraph signals	10	119
Fire alarms, private	11	233
Flather transmission and absorption dynamometer	9	466
Four-wire multiple voltage system	22	480
Frictional electric machine	10	114
Fuel in electrical power production	22	486
Fuses	12	385
Galvanic circuits, law of	15	282
Galvanometer	12	254
	15	282
Generation	10	168
	25	431
of current	26	743
Generator, electric	10	166
Generators	12	378
	22	491
and switchboards, connection between	22	490
Girod Furnace	25	570
Glowers	10	111
Gray harmonic multiplex telegraph	26	391
Greaves-Etchells furnace	25	570
Ground return circuit	26	330
Heising multiplex wireless telephone system	26	392

Electrical — cont'd	Vol.	Page
Helix	14	81
	14	178
Henry	10	168
Heroult process of steel manufacture	25	568
steel furnace	25	569
High-frequency discharge	14	178
oscillating current	14	177
High potential system	10	166
voltage plants	22	489
Holts's electric induction machine	10	115
Hot-wire amperemeter	10	162
Hughes' printing telegraph	26	341
Illumination of street cars	23	172
Incandescent filaments	17	487
furnace	10	108
lamp	10	112
	10	166
Indicator telegraph	15	283
Individual motor	22	479
Induction furnaces	25	567
magneto - electric, laws of	15	283
motor	10	92
	10	166
	12	382
Installation, electric power	22	496
Insulation	10	131
	15	175
Insulators	10	170
petticoat type	22	497
Inter-cell connectors	10	130
Interior conduit	10	166
Internal resistance	10	134
Ironclad plate	10	128
Joule	10	168
Jump-spark system	14	673
Kelvin balance	10	162
Kjellin process of steel manufacture	25	567
	25	569
tilting furnace	25	569
Lead sulphuric acid battery	10	123
Leclanché cell	10	96
Lightning arresters	12	382
	17	422
	26	333
Load	10	166
Locomotives, electric	17	587
Long distance wireless telephony	26	393
Low potential system	10	166
Magnetic blow-out	26	742
field	10	166
flux	10	166
telegraph	14	106
Magneto-electric induction, laws of	15	283
Magneto-electric machines, first	15	283
Mains	10	166
Make-and break system	14	673
Marconi's early experiments	26	347
Marconi's tuned wireless telegraph system	26	353
Marconi wireless telegraph station	26	360
Mechanical power from electricity	10	169
Megohm	10	166
Mercury vapor electric light	15	285
Mercury vapor lamp	14	162
vapor rectifier	14	162
Metallic circuit	26	330

Electrical — cont'd	Vol.	Page
Microphone	10	166
Mil	29	165
Moore vapor tube glow lamp	10	112
Morse code	10	166
Morse electro-magnetic telegraph	26	330
Morse system of telegraphy	10	166
Morse telegraph apparatus	26	332
Morse telegraphy circuit	26	330
Morse telegraph key	26	332
telegraph relay	26	332
Motor, compound	10	165
electric	10	166
Motor generator	22	496
starter	10	166
Multiple unit system	25	449
	25	780
	26	742
Multiple wireless telephony	26	391
Multiplex printing telegraph system	26	343
Multipolar dynamo	10	166
Murray printing telegraph	26	342
Negative pole	10	110
Nernst electric light	15	285
lamp	10	111
New York's subway, electrification of	9	401
Needle telegraph systems	26	329
Niagara Falls as source of electric power	14	556
Nickel storage battery	15	285
Non-electrics	10	188
Ocean wireless telegraphy	15	285
Ohm	10	168
Oil-cooled transformer	10	166
One-liquid batteries	10	95
Oscillating current	10	166
Oscillion	8	593
Out-door substations	22	495
Overhead electric trolley, contact device for	15	285
Overhead trolley system	26	742
Overload	10	166
Peaucellier cell	21	460
Petticoat type of insulators	22	497
Phase	10	168
Photophone	22	14
Pile	22	84
Plate electric machine	10	115
Police alarm system	22	382
Police and fire-alarm systems	22	382
Police electric signals	19	120
Polyphase electric currents, system of	15	285
Polyphase machines	10	91
system	10	166
transmission	14	557
Positive	22	421
Positive pole	10	110
Power factor	10	166
houses	22	486
Power houses, design and arrangement	22	487
Power houses, reserve capacity	22	487
Power transmission	22	494
Primary voltaic cell	10	166
Printing telegraphy	26	340
Private fire-alarms	11	233
Pulvermacher chain	22	800
Quadruplex telegraph	15	284
telegraphy	10	166
Radioactivity	23	121
foundation of	15	285
Rail bonds	10	166
Railroad motors, electric, development of	26	741
Railway electric block signals	4	91
	10	120
motors, direct-current	26	741
Refining furnaces	25	567
Relay	10	166
Resonator of Oudin	14	178
Return circuit	26	743
Rheostat	10	166
	23	457
Rhumkorff coil	15	283
Rochling - Rodenhauser furnace	25	570
Rotary converter	10	98
elector motor	15	288
Rotor	10	166
Rubber insulation	10	140
Self-adjusting telegraph relay	13	165
Series generator	10	166
Series motor	10	166
Series parallel controller	10	166
Shade	10	166
Short circuit	10	166
Shunt	10	166
generator	10	166
lamp	10	111
motor	10	166
Siemens electrodynamometer	10	161
Simultaneous telegraphy and telephony	26	339
Singing telephone	15	284
Singlephase system	10	167
Single runner units	10	152
Siphon recorder	5	124
Smee	10	96
Smelting furnaces	25	567
Solenoid	25	239
Speaking telephone	15	284
Standard voltage	26	743
Stassano process	25	567
Static electric induction machine	10	115
Stator	10	167
Stearns duplex	26	336
Steel, electrical processes of manufacture	25	566
Steel rail as conductor	26	557
Stock tickers	26	340
Storage battery	10	167
	15	282
applications of	10	135
or accumulator	15	284
stepless type	23	172
Storage cell	10	167
Storage, electrical	10	169
Stored energy	25	542
Street car improvement	23	173
Submarine cable telegraphy	26	338
Submarine signaling	25	763
signaling - direction finding	25	765
Submarine telegraphs, siphon recorder for	15	284
Substations, electric	10	167
	22	492
Substations for city lighting	22	493
Substations for railway service	22	493
Subways, operation of	25	780
Switchboard	10	167
	22	490
	26	370
Switch, electric	10	167
Switching apparatus	22	492
Synchronizer	26	170
Synchronous motor	10	167
	10	98
multiplex telegraphy	26	339
Telautograph	13	165
	26	327
Telechirograph	26	327
Telegraph message service	10	119
Telegraph sounder	26	333
	26	331
Telegraph transmitters	26	333
Telegraphone	26	328
Telegraphy	10	157
	10	158
	26	328
alphabets	26	331
automatic repeaters	26	333
automatic systems	26	334
Barclay page printer	26	342
Baudot multiple printer	26	342
Bright's bell	26	329
Buckingham page printer	26	342
chemical automatic systems	26	334
composite	26	339
dial	26	340
duplex	26	336
electric systems	26	329
Hughes' printing	26	341
lightning arresters	26	333
military	26	340
miscellaneous	26	343
Morse electro-magnetic	26	330
Morse relay	26	332
multiplex printing system	26	343
Murray page printer	26	342
naval	26	340
needle systems	26	329
polar duplex	26	337
polybius system	26	328
printing	26	340
quadruplex (Edison)	26	338
semaphore systems	26	328
simultaneous	26	339
sounder	26	333
speed of systems	26	344
Stearns duplex	26	336
stock tickers	26	340
submarine cable	26	338
submarine sound	26	344
synchronous multiplex	26	339
systems in practical operation	26	343
transmitters	26	333
transmitting keys	26	332
wheatstone automatic system	26	335
writing systems	26	336
Telegraphy, wireless	26	345
aerial	26	350
atmospheric interference in	26	357
Bellini-Tosi signal system	26	356
beat antennæ	26	356
Castelli detector	26	348
condensers	26	351
De Forest audion	26	349
detectors	26	348
direction finders	26	355
directive signaling	26	355

Electrical — cont'd	Vol.	Page
Edison quadruplex..	26	339
electric wave localizer	26	355
electric wave meters	26	353
electric wave propagation	26	346
Fleming's transmitting circuits	26	354
Fleming valve detector	26	349
generators of electric oscillations	26	351
Marconi's early experiments	26	347
tuned system	26	353
polar duplex	26	337
quenched spark transmitter	26	352
silicon detector	26	348
statics	26	377
syntony	26	351
theory of bridge duplex	26	336
trans-Atlantic	26	259
tuning	26	351
vacuum tube detectors	26	348
vertical wire	26	350
wave motion	26	355
Weagent anti-static device	26	358
	26	345
Telemeter	26	361
Telephone	26	363
aerial cables	26	376
automatic switchbook	26	369
automatic systems..	26	374
balance metallic circuit	26	375
Bell's invention	26	364
Berliner transmitter.	26	366
Boston - Washington underground cable	26	378
bridging bells	26	369
early interurban cables	26	377
fine wire cable	26	377
grounded circuit	26	375
induction coil	26	368
insulated dry-core paper cable	26	377
interference from other electrical systems	26	381
invention of the	26	364
lines	26	374
loaded lines	26	379
multiplex telephony.	26	381
open wire lines	26	375
party lines	26	373
phantom circuits	26	376
private branch exchanges	24	373
receiver	26	366
repeaters	26	379
series	26	369
signalling systems..	26	368
switchboards	26	370
systems	26	382
independent	26	383
toll boards	26	373
transmission theory.	26	378
transmitter	26	366
transmitter of variable resistance	15	284
transcontinental circuits	26	381
trunking systems	26	373
underground cables.	26	376
work of early investigators	26	366

Electrical — cont'd	Vol.	Page
Telephony	10	157
wireless	26	384
Colbitt's vacuum tube oscillator	26	388
De Forest's	26	386
long distance	26	393
multiple	26	391
wireless vacuum tube oscillator	26	387
Telephote	26	395
Telharmonium	26	400
Telpherage	26	402
Ten-stamp battery	19	190
Tesla apparatus	14	178
Tesla's researches	26	452
Thermo-electricity	26	535
discovery of	15	282
Thermostat	10	150
	26	546
system	11	233
Third rail	10	167
	25	780
installations	23	173
sections, different	23	166
system	26	555
difficult problems	26	556
Thomson alternating current amperemeter..	10	163
Three-phase system	10	167
phase transmission..	14	557
wire system	10	167
wire, 110-220 volt system	22	480
Torricellian vacuum	10	112
Torque	10	167
Toye repeater	26	334
Traction, electric	26	740
Trans-Atlantic wireless telegraphy	26	259
Transformer	10	92
	10	167
	10	169
	12	383
	14	557
Transformer, step-down	10	167
step-up	10	167
	22	488
Translating device	10	167
Transmission line for high voltages	22	496
Trolley wheel	10	167
Tungsten lamp	10	113
Turbo alternator	10	167
generator	22	491
Two-liquid batteries	10	97
phase system	10	167
wire system	10	167
Ultraudion receiver	8	593
Underground trolleys	26	743
Unit switch control	26	745
Vapor lamp	10	167
lamps	10	111
Volt	10	168
Voltaic arc	15	282
Voltmeter	10	163
Watt	10	168
	14	288
	29	112
Wattmeter	10	163
	10	167
Westinghouse controller	26	742
Weston amperemeter	10	161
Wet batteries	10	95
Wheatstone automatic receiver	26	335
automatic telegraph.	26	337
automatic transmitter	26	335
Wimshurst's influence machine	10	115

Electrical — cont'd	Vol.	Page
Wireless, signaling, directive	26	356
Wireless telegraphy	10	167
	26	345
future of	26	394
telegraphy, system of	15	285
telegraphy, tuning..	26	351
telephone transmitters	26	387
telephony in aerial service	26	390
Wiring and fixtures	10	113
Writing telegraph systems	26	336

Hydraulic

Albany water supply	29	61
Artesian wells	2	349
Axial turbine	14	540
	27	170
Balram Dass waterworks	29	59
Barker's Mill	3	256
Berlin water supply	29	55
Birmingham water supply	29	58
Breast wheel	14	550
	29	66
Brotherhood hydraulic engine	14	540
Bucket pumps	23	4
Burden wheel	29	66
Castlewood dam	8	439
Chain of buckets	23	12
Chain of pots	23	13
Chain pump	23	13
Chicago water supply	29	61
Cleveland water supply.	29	62
Collection of water supplies	29	54
Combined turbine	27	170
Comparative efficiencies of water motors	29	27
Conveying water, means of	14	548
Different hydraulic systems	22	482
Direct-action wheel	14	551
Discharge pipe	23	9
Distribution of water supplies	29	54
Dow turbine	27	172
Dredge, hydraulic	9	284
	15	285
Driven well	27	120
Drive pipe, diameter of	14	548
length of	14	548
Edinburgh water supply	29	56
Eduction pipe	23	3
	23	4
Eductors	23	9
Ejector fire hydrant	13	366
Ekruk dam (India)	8	435
Elephant Butte dam	8	441
Engines, hydraulic	10	340
Feeder	11	94
Firm power	29	32
Floats	11	359
Floods	14	545
Flow of water in channels	14	550
Flow of water in pipes.	14	550
Fluid pressure, laws of.	23	5
Fountain	11	547
Fourneyron turbine	27	170
Frame dams	8	436
	8	438
Francis turbine	27	170
Frizell system	23	2
	23	4

Hydraulic — cont'd	Vol.	Page
Gate hydrants	27	660
valves	27	658
Glasgow water supply	29	58
Gatun dam	8	435
Girard dam	8	438
Great Stone dam	17	148
Ground water, removal of	24	265
Ground water supply	24	263
Harbors	13	688
	14	545
Head, loss of	14	550
Hero's fountain	28	13
High masonry dams	8	440
High-pressure pipe	23	9
turbines	27	170
Hydrants	27	656
	29	106
Hydraulic compression system of forging	11	488
Hydraulic crane	14	539
	14	547
engineering	1	290
	14	541
disposal of water	14	544
floods	14	545
harbors	13	688
	14	545
irrigation and drainage	14	543
navigation	14	545
operations	14	541
range of	14	541
river regulation	14	546
water power	14	544
engines	14	540
	29	25
rotary forms of	14	540
jack	14	547
lift	29	24
machinery	14	547
plant power station	22	489
plants	22	488
power	14	551
	22	482
appliances	18	507
in London, cost of	14	549
press	14	547
pressure pumps	23	11
ram	14	547
	23	9
	29	25
ram, efficiency of	14	548
Hydraulics	14	549
Hydraulic transmission	14	548
turbine	29	27
Hydraulic turbines and generators in place	22	489
Hydro-electric development	14	556
Hydro-electric power	29	34
power station	22	488
Hydrostatic press	14	585
pump	14	553
Impeller pump	23	6
Impounding of water supplies	29	54
Impulse pumps	23	8
steam-turbine	27	170
wheels	14	551
	29	66
Independent water supply	5	483
Inward flow turbines	14	540
Injector	15	135
	23	8
Irrigation and drainage	14	543
	15	393
Jantu	23	12
Jet pumps	23	9
Jonval turbine	27	170

Hydraulic — cont'd	Vol.	Page
Jordan river dam	8	442
Kansas City water supply	29	62
Keokuk dam	8	441
Lahontan dam	8	435
Lake Cheesman dam	8	440
Lang dam	8	438
La Prele dam	8	442
Largest water wheel in the world	29	66
Levee	8	434
	17	327
Liverpool water supply	29	58
Location of hydro-electric power houses	22	486
Log dams	8	436
London water supply	29	56
Longitudinal backstop	23	6
Los Angeles water supply	29	62
Low pressure turbines	27	170
Manchester water supply	29	58
Marshall dam	8	438
Masonry dams	8	436
Mathis dam	8	442
Mauer dam	8	440
Melbourne water supply	29	60
Metal dams	8	439
Milwaukee water supply	29	62
Modern water wheel governor	29	32
Montreal water supply	29	63
Morena dam	8	439
Movable dams	8	437
Multi-stage turbine pumps	23	8
Municipal water supply	14	542
Naples water supply	29	56
Nautilus	19	784
Needle dam	6	438
New Croton dam	8	440
New Hartford dam	8	436
New Orleans water supply	29	62
New York City water supply	29	60
Noria	14	550
	20	403
Olive Bridge dam	8	440
Omaha, Neb., water supply	29	62
Outward flow turbines	14	540
Overshot wheel	14	540
	14	550
	29	65
Paris water supply	29	56
Parker dam	8	438
Parsons turbine	27	170
Pathfinder dam	8	441
Pecos Valley dam	8	439
Pelton wheel	14	551
	29	66
Picotah	23	12
Pittsburgh water supply	29	62
Pneumatic pumps	23	1
Pondage	29	32
Poona dam	8	440
Port Villez dam	8	438
Power development	11	481
Power, firm	29	32
Primary power	29	32
Propeller pump	14	553
Proper operation of waterworks	24	264
Pulse valve	14	547
Pulsometer	23	8
efficiency of	23	8
Pump, Appold's	23	7
Archimedes	14	553
Halsey	23	3
Halsey system	23	2
Pumping ram	14	548

Hydraulic — cont'd	Vol.	Page
Pumps	23	1
air lift	23	3
and pumping machinery	23	4
compressed air	23	1
power driven	23	1
pneumatic	23	1
Radial turbine	27	170
Reciprocating hydraulic engine	14	540
Redridge dam	8	440
Reservoir	23	411
Reservoirs, location of	14	543
Riggs hydraulic engine	14	540
Rock-fill dams	8	439
Roller dams	8	438
Roosevelt dam	8	440
Rotary hydraulic motors, classification of	29	28
Saint Louis waterworks	24	149
San Leandro dam	8	435
Shadoof	23	12
	24	637
Shoshone dam	8	441
Shutter dam	8	438
Siphon barometer	23	13
Sokia	23	12
Sprinkler, automatic	11	245
Stand-pipe	25	478
Storage	29	32
of water	24	264
reservoir	29	33
Sweep	23	12
Tabeaud dam	8	435
Taintor gate	8	438
Tansa dam	8	440
Three Miles Falls dam	8	442
Timber dams	8	436
Tomhannock dam	8	435
Toronto water supply	29	63
Tube well	27	120
Tub-wheel	14	550
Tumble-bay dam	8	437
Tunnel shield (operated by hydraulic power)	15	284
Turbines	27	169
axial	14	540
	27	170
combined	27	170
Dow	27	172
Fourneyron	27	170
Francis	27	170
high pressure	27	170
hydraulic	22	489
	29	27
inward flow	14	540
Jonval	27	170
low pressure	27	170
outward flow	14	540
Parsons	27	170
radial	27	170
type of water wheel	29	28
water	27	169
water-wheel	23	7
wheels	14	540
	14	551
Tympanum	23	12
Undershot wheel	14	540
	14	550
	29	66
Vienna water supply	29	55
Wachusett dam	8	443
reservoir	29	60
Waldeck dam	8	440
Water, application of	15	395
flow of, in channels	14	550
in pipes	14	550
Water for manufacturing	14	544
Water hammer	29	20
hammering	14	549
inch	29	21

Hydraulic — cont'd	Vol.	Page
jet apparatus	22	13
motor	29	24
natural gravity pressure of	14	549
power	14	544
	22	479
	29	26
power plants	14	557
pressure of	14	553
supplies in India	29	59
supply	5	482
	15	394
	22	256
	29	39
collection of	29	54
distribution of	29	54
impounding	29	54
independent	5	483
supply in Canada	5	449
	29	63
supply in United States	29	39
public	19	579
supply system, first municipal	29	102
turbine	27	169
velocity of, through pipes	14	549
wheel	29	27
	29	65
world's largest	29	66
Waterworks	29	102
Weir	11	93
Wetted perimeter	14	550
Whirlpool chamber	23	7
Wicket dam	8	438

Marine

Air regenerating system, submarines	25	772
system, submarines	17	577
signal hose	17	577
Architecture, naval	19	789
Armor	10	349
Boat electrically propelled	15	283
Camel	5	258
Coal bunkers	24	726
Collision bulkhead	24	726
Concrete ships	7	474
Cruisers	8	255
	19	515
Diving gear in submarine	25	772
Education, naval	19	794
Engineering	10	346
marine	10	346
Engines	10	56
reciprocating	24	728
External fittings, submarines	25	772
Fabricated ships	24	720
Feathering paddle-wheel	11	75
propeller	11	75
Ferry slips	14	305
Fire boat	11	233
Ferryboat, first steam-propelled	14	305
Floating battery, revolving turret for	15	284
Gasoline launch	19	515
Great Britain	4	632
Great Eastern	4	632
Great Western	4	632
Houseboat	14	445
Hydroplane boats	19	515
Iron and steel for shipbuilding purposes	24	720
Launching	24	720

Marine — cont'd	Vol.	Page
Marine boiler	4	172
cylindrical	4	166
engine	10	339
	15	225
engineering	10	346
steam engines	25	547
Midship section of wooden vessel	24	719
Motor boats	19	515
Naval architecture. See Naval Science and History.		
Navigation	20	7
Navigation appliances	18	507
	25	772
Navigators	5	484
Ocean liner	24	726
Propeller fan	14	53
types	24	452
wheels	24	726
Propulsion	24	726
Reciprocating engine	24	728
Requirements of a ship	24	717
Revolving turret for floating battery	15	284
Sailing vessels	24	112
Salinometer	4	172
Salting	4	173
Screw propeller	24	451
tests of	24	452
Sea-cock	27	655
Seven-masted steel schooner	24	726
Shell plating	24	728
Shipbuilding industry and construction	24	725
on inland waters	24	725
Ship	24	716
Ship capacity	24	718
concrete	7	474
construction	24	718
	24	727
recent developments in	24	728
displacement	24	727
fabricated	24	720
frame	24	719
iron and steel	24	720
keel	24	719
masts	24	721
requirements of	24	717
rigging	24	721
sails	24	721
spars	24	721
strength of structure	24	718
trim	24	718
Speed boats	19	515
Steamboat	25	546
first	15	282
Steel schooner	24	725
steamships	24	726
Steering gear of a sailing vessel	18	505
gear in submarine	25	772
Strength of the ship	24	718
Submarines. See Naval Science and History.		
Tankage space	25	772
Tank system of submarine	25	772
Tests of screw propeller	24	452
Torpedo	15	284
	26	705
Turbine experiments	27	173
navigation	27	173
passenger steamship	27	174
ship, first passenger	15	285
Water piping system, submarines	25	772
Wooden vessel, midship section of	24	719

Marine — cont'd	Vol.	Page
See also Naval Science and History; Ships, Shipping and Shipbuilding.		

Mechanical

Albot voting machine	28	193
Æolipile	1	178
Aerator	1	179
Ærugo	4	589
Agricultural machines and implements	1	258
	18	507
Air bell-ringer	17	577
Air brake, automatic	1	277
	15	284
brake hose	17	577
casing	4	170
chamber	1	285
cock	1	285
compressed	22	478
	22	480
transmission of	22	496
compressor	1	285
compressor plant	1	286
cooling plants	14	53
Air cylinder	1	288
	15	577
drill	1	288
drum	17	577
	1	288
gate	1	288
	11	544
gauge	17	577
lift	23	3
lift system, the	23	2
power appliances	18	507
pump exhaust pipe	17	577
pump lubricator	17	577
pumps	1	289
	17	577
	22	266
	23	13
reheater	1	287
spaces	4	171
washers	14	53
valves	27	659
Aladdin oven	21	57
Alden brake	9	462
Allen valve	27	653
Allis-Chambers steam stamp	19	190
Ammonia absorption ice machine	15	284
absorption machines	23	313
compression machines	23	315
Amoskeag steam fire engine	3	377
Angle valve	27	653
Annealing	1	717
	10	349
	11	542
Annular seating	27	653
valve	27	658
Anti-fouling compositions	4	171
Arch pipes	17	577
Ash pit	4	171
Assembly drawing	9	315
Atmospheric engine	2	509
Austin gyratory rock breakers	19	189
Autogenous plumbing apparatus	2	641
Automatic feeding machine	11	95
presses	22	593

Mechanical — cont'd	Vol.	Page
Automatic selecting machines	7	222
sprinkler	11	245
Automation	2	642
Autoplate	2	668
Axle	10	349
Axonometric projection	9	317
Babcock extinguisher	11	236
Back cut-off valve	27	653
pressure valve	27	653
Baffle plates	4	171
Bafflers	4	171
Balance rolls	23	637
Baldwin's "Old Ironsides" locomotive	17	566
Ball and socket	3	94
cock	3	94
governor	18	506
valve	27	653
Balance	3	66
Bar channeler	23	595
stays	4	171
Bardwell voting machine	28	193
Barron lock	17	559
Bars	11	542
Battering off	11	543
Battery screens	19	191
Beach shield	3	370
Bead slickers	11	543
tools	11	543
Bearing ring	4	171
Bearings, anti-friction	3	382
Bed-and-Platen presses	22	591
Bedding in	11	546
	11	543
Bell crank	18	505
stand	17	577
yoke	17	577
belt	10	349
conveyer	7	613
wheels	22	797
Bellows	3	491
	4	119
Belting	10	349
Belts	22	494
Bench molding	11	545
Bevel gearing	29	240
gears	2	650
	18	505
Bissel truck	17	577
Black wash	11	543
Blackening	11	543
Blake crusher	19	188
Blast	4	171
	11	543
furnace lines	4	69
furnace practice, modern	4	66
Blast heating	4	67
pipe	25	551
Bleeding	4	171
Blenkinsop's rack locomotive	17	566
Blisters	4	171
Blow-off	4	171
cock	4	171
	17	577
	27	653
valve	27	653
Blow-through valve	27	654
Blower pipe	17	577
Blowers	11	543
high-pressure	4	120
piston	4	119
positive	4	120
rotary	4	119
Blowholes	11	543
Blowing machines	4	119
	10	349
Boiler	4	166
	17	577
bear	4	171
	4	172
capacities	22	490
externally fired	4	168
internally fired	4	166
jacket	17	577
Boilers	4	166
	22	257
water and steam	22	257
Boiler shop terms	4	170
steam	25	551
units	22	490
Bolt	10	349
Bolt ropes	4	196
Bonnet	17	577
Bonneted safety valve	27	654
Bore	4	269
Boring	4	273
	10	349
Bottle tight	4	171
Bottom board	11	543
Bowling hoop	4	171
Bottling-up	4	171
Box loom	25	4
Boxes	17	577
Boyer piston drill	22	266
Brake	4	408
	10	349
	17	577
efficiency	15	230
pipe	17	577
pump	17	577
Brakes	2	653
Bramah lock	17	559
Brass, casting of	11	544
Brasses	17	577
Breaking joint	4	171
Breast roller gins	17	648
Brick-making machinery	4	491
Bridge shops and shop practice	4	522
Bridle	27	654
Brine pump	4	171
valve	27	654
British thermal unit	10	349
Bronzing	4	589
Brook's locomotive	17	566
Brunston's locomotive	17	566
Buchanan stone crusher	8	259
Bucket conveyers	7	612
valve	27	654
Buckets	4	665
Bude light	4	677
Buffers	4	695
	17	577
Buggy plow	22	252
Bull-dozer press	22	266
Bumper blocks	17	577
sheet	17	577
Bumpers	17	577
Bunker plate	4	171
Burning off	11	543
on	11	543
Bursting	4	171
Bushing	5	73
Butt welding	25	604
Butterfly valve	27	654
Button-hole machine	15	284
By-pass	10	349
By-products	29	3
Cage valve	27	654
Caisson	5	150
	10	349
Calculating machine	5	161
	15	282
Calender	10	349
Calorimetry	4	171
	5	232
Cam	5	242
Cams	19	192
Capacity displacement pump	23	2
Car coupler, automatic	15	284
Carburetor	2	658
	5	395
Carding and combing machinery	8	79
Case hardening	11	543
Casing-head gasoline	21	684
Caterpillar tractor	15	285
Caulking	4	171
Centre	10	349
Centre-casting	17	578
Centre pin	17	579
Centrifugal blowers	14	53
Centrifugal force	23	7
machines	6	214
pump	14	553
	23	7
Centripetal pump	14	553
Chain drive	22	495
Chain gearing	12	350
Challenge ore-feeder	19	190
Change valve	27	654
Channeling machines	23	60
Chaplet	11	543
Chapman's chain locomotive	17	566
Charging	11	543
Chart method	11	543
Chassis	2	644
	6	348
Check chamber	17	578
valve	27	654
	17	578
Chemical engine	11	235
Chernack circular loom	17	651
Chili mills	6	510
Chilling	11	547
Chills	11	543
Chinese windlass	6	559
Chronoscope, or chronograph	6	644
Chubb lock	6	651
	17	559
Cigarettes, machine for making	15	284
Circular inch	10	349
valve	27	654
Circulating tubes	4	171
Cleaning	11	543
up	11	543
Clepsydra, or water-clock	7	90
Clinkering	4	171
Closed heater	11	93
Clutch	7	139
Coal-gas lighting	19	605
Cochrane metering heater	11	94
Cock	27	654
Cockerill engine	4	119
Coefficients	10	349
Coffee mills	8	261
Cohesion	7	216
	10	349
Cold process softener	11	93
shuts	11	543
water test	4	171
Collector	4	171
Columbian press, elbowed pulling bar	15	282
Combustion	7	352
	10	349
chamber	4	171
engine	15	227
Common slide valve	27	654
Comparative efficiencies of fuel motors	29	27
Compound motions	18	506
pulleys	22	796
Compressed air	7	447
	22	478
	22	480

Mechanical — cont'd	Vol.	Page
transmission of power	22	496
air rock drill	15	284
Compression	10	350
hydrants	27	661
Computing scale	7	453
	29	162
Concentrator	10	350
Condenser	7	478
	7	479
	8	78
	10	350
Condensing engine	10	338
	25	545
Conical valve	27	654
Connecting rods	17	578
Constant	10	350
rolls	19	650
Contrate wheel	10	697
Conveyer	7	612
Conveyor scale	29	162
Cord and pulley	18	508
Corliss valve	27	654
Corner valve	27	653
Cornish engine	10	339
	23	14
	25	545
valve	27	654
Corrugated furnace tubes	4	171
Cotton gin	8	78
	15	97
	15	282
hulling machine	8	85
machinery	8	77
Counter-balances	17	578
scales	29	161
weights	17	578
Couple	10	350
Cowburn valve	27	654
Crampton engine	8	152
Crane	8	157
Crank	8	159
and piston movement	18	505
pin	17	578
	22	92
Cross continuous paper-feeder	11	95
Cross-heads	17	578
tubes	4	171
valve	27	654
Crown	4	171
Crown bars	17	578
wheel	10	697
Crushing and grinding machinery	8	258
rolls	19	189
Cugnot's steam tractor	2	663
Cultivators	11	33
Current meter	8	313
Cut-off	17	578
valve	27	654
Cycle	10	350
Cylinder	8	364
	10	350
	17	578
	25	551
cocks	17	578
	27	654
escape valve	27	654
heads	17	578
locks	17	560
oil	11	93
presses	22	592
Dalby weight-bar machine	25	729
Damper	4	171
	8	432
	17	578
Dashers	17	578
Davis Chilian mill	8	261
D-box	22	266
Dead-load safety valve	27	654
Dead-plate	4	171

Mechanical — cont'd	Vol.	Page
Dead water	4	171
Deals	10	350
Degrande's gas engine	15	243
Delivery valve	27	654
Denny-Edgecombe indicating and recording meter	9	468
Derrick	8	716
Development of compressed air power	22	481
Dexter pile feeder	11	95
Diagram of the plunger force pump	23	6
Die making	9	96
Dies, bending	9	97
blanking	9	97
coining	9	99
drawing	9	97
embossing	9	99
forging	9	99
metal-working tools	26	697
multiple	9	99
Diesel engine	15	227
	15	247
Diesel motor	25	771
Differential	2	650
	10	350
air-lift	23	4
	23	14
gear	2	651
	9	106
pulley	22	797
pump	23	6
screw	24	450
Digester	9	108
	10	350
Graham	9	109
mitscherlich	9	109
non antem	9	109
Partington	9	109
Pusey and Jones	9	109
Schenck	9	109
sulphite	9	109
Dipper dredge	9	324
Direct acting draft furnaces	25	704
Direct-acting pump	23	6
Disc grinding	13	478
valve	27	654
Discharge valve	27	654
Disintegrator	9	166
Displacement pumps	23	1
	23	2
Doffer	9	223
Dolly	4	171
Dome	17	578
bodies	17	578
stays	17	578
Double-acting beat valve	27	654
disc valve	27	654
ended boiler	4	171
Dovetailing machine	16	342
Draft pipe	17	579
Drain cock	27	654
Draw cock	27	654
Drawing, mechanical	9	314
of temper	11	543
rolls in a spinning machine	15	281
Dredge	9	323
Drip	17	578
cock	17	578
Driver and driven pulleys	22	495
Drivers	17	578
Driving	10	350
axles	17	578
saddles	17	578
wheels	17	578
Drop forging	11	543
Drum shaped cam	18	505
Dry blast	4	66

Mechanical — cont'd	Vol.	Page
gas meter	15	282
steam	4	171
	25	540
Ductilimeter	9	381
Duty	10	350
D valve	27	654
Dynamics of machinery	9	455
Eccentric	10	350
	17	578
	18	505
gear wheels	18	505
sheave	17	578
Economic feeder	11	95
Economical efficiency	15	230
Economizer	4	171
Efficiency	10	350
displacement pump	23	2
of the presses	22	482
Ejectors	23	9
Elevators	10	225
Elliptic spring	25	459
Emery machine	25	729
Encastre	10	350
Endless or perpetual screw	10	320
	29	249
Energy	10	350
Energy of steam	25	542
	17	578
	25	544
Engine	10	338
	25	554
	25	771
air	1	288
	10	339
	23	1
aircraft	15	225
alcohol	15	225
Barnett's	15	243
Barsanti's atmospheric free piston	15	243
beam	10	339
blast furnace gas	15	225
blowing	4	119
Brayton	15	244
compound	10	339
Corliss	10	339
	15	283
type	10	152
Daimler	15	246
Degrande's gas	15	243
development of pumping	23	11
Diesel	15	227
	15	247
oil	15	230
direct-acting	10	338
disc steam	25	552
dividing	9	198
double-acting	10	338
steam	25	454
Drake's hot tube	15	243
economy in the compound	23	10
efficient type of rotary	23	714
essential parts of the steam	25	551
expansive working	10	338
explosion	15	227
fire	11	235
first practical application of the steam	15	281
first steam, with a piston	15	281
gas	10	339
	15	284
	25	546
gasoline	15	225
heavy oil	15	225
high-speed	10	338
Hoffman	23	714

Mechanical — cont'd	Vol.	Page
Engine, Hollander	21	264
Horizontal	10	339
hot air	10	339
hydraulic	10	340
illuminating gas	15	225
inclined	10	339
cylinder	10	339
indirect-acting	10	338
industry	10	345
internal combustion	15	224
	15	285
	22	483
atomization methods	15	240
cooling	15	234
fuels	15	238
gaseous fuels	15	238
governing methods	15	236
ignition systems	15	237
liquid fuels	15	240
internal wastes of steam	25	549
inverted cylinder	10	339
Lebon's illuminating gas	15	243
Lenoir	15	243
Liberty	28	456
light traction	26	745
locomotive	10	339
low-speed	10	338
Matteucci's atmospheric free piston	15	243
miscellaneous	10	338
modern steam	13	311
natural gas	12	306
	15	225
Newcomen's steam	25	545
non-condensing	10	338
non-expansive	10	338
Oechelhäuser - Junkers	15	231
oil	10	339
operation of high duty pumping	23	11
oscillating	10	339
steam	25	551
Otto and Langen free piston	15	243
Otto	15	227
	15	244
Packard 12-cylinder "V" type automobile	15	235
producer gas	15	225
reciprocating	22	266
Reithmann's hydrogen gas	15	243
rotary	23	713
	29	25
steam	25	552
sectional view of Worthington high-duty pumping	23	10
starters	10	345
steam	4	329
	6	131
	7	264
	10	338
	11	37
	25	543
steam, atmospheric pressure	15	281
the basis of the modern engine	15	281
structure of the steam	25	246
testing of	10	340
truck	15	580
	17	578
Wright's explosion	15	243

Mechanical — cont'd	Vol.	Page
Engineer's brake valve	17	578
Engineering	10	346
construction appliances	18	507
mechanical	18	498
terms	10	349
Epicyloidal wheel	10	419
Equalizing levers	17	578
springs	17	578
Equilibrium slide valve	27	654
valve	22	654
Escalator	10	489
Escape valve	27	654
valve, steam	25	551
Escapement	18	506
Excavator	10	618
Exhaust port	17	578
relief valve	27	654
Exhaust steam	11	93
	25	541
Expanding	4	171
Expansion	10	350
Expansion clamps	17	578
Expansion hoop	4	171
valve	27	654
Externally fired boilers	4	168
Face gearing	29	249
wheel	10	697
Fagoting	11	543
Fans	11	12
Farm equipment	11	33
machinery	11	32
Feathering float	11	75
Feed injector for boilers	15	284
pipe	17	578
pump	11	92
	17	578
tank	17	578
water heaters	11	92
	17	574
Feeder	4	171
	8	78
	11	94
Feeding	10	350
	11	543
machine	11	95
Ferris wheel	11	141
Flat motor	25	772
Filter presses	11	212
Fire alarm	11	232
bars	4	171
	11	233
box	4	172
	17	578
doors	17	578
extinguisher	11	235
tube boiler	4	172
Firing	4	172
machines	11	257
Fittings	4	172
Fixed cranes	8	157
Flame plates	4	172
Flap valve	27	654
Flash boiler	4	172
Flue	8	78
	10	350
	11	401
plates	4	172
surface	4	172
Flues	4	172
	17	578
Fluting machines	11	405
Fluxes	4	67
	11	543
Fly shuttle	17	650
wheel	10	350
	11	409
Flying shuttle	15	281
Folding machines	11	413
Follower plates	17	578
Following joints	4	172

Mechanical — cont'd	Vol.	Page
Foot board	17	578
plate	17	578
valve	27	654
Force pumps	14	542
	23	4
	23	5
Forge shop	4	524
Forging machines	11	487
Forming machines	11	491
Foundry and forge shop terms	11	542
Foundry practice	11	544
Fourdrinier machine	11	549
	21	261
	21	266
Four-way cock	27	654
Frame-splice	17	578
Franklin printing press	15	281
Friction gearing	22	495
Frost cocks	17	578
plugs	17	578
Fuel, comparative heating values of	12	142
Fuel economizers	11	93
	11	94
feed	2	645
pump	15	243
Fuels. See **Fuels and Illuminants.**		
Furnace	12	180
pads	17	579
rings	17	579
Fusee	12	202
Gadder	23	595
Gaede's molecular pump	27	639
Gaggers	11	543
Gas	10	350
	12	302
burner	15	285
heating	22	256
holder	12	330
turbine	15	243
Gasoline motor	15	285
Gauges	12	339
	26	696
Gayley process	4	66
Gear wheels	12	350
wheel and worm	18	505
Gearing	12	351
	18	507
Gears	12	350
Gib	17	579
Gin	8	716
	12	658
Gland	17	579
cock	27	654
Glass bottle machine	15	285
Globe valve	27	654
	27	659
Goose neck	17	579
Gordon job printing press	15	283
jobber press	22	592
	22	594
Governor	10	351
	13	98
	17	579
valve gear	27	654
Grab dredges	9	324
Grain binder	15	284
binder, automatic	15	284
threshing machine	15	282
Grasshopper spring	25	459
Grate	4	172
	17	579
shaking rig	17	579
Gravity stamps	19	188
system of steam heating	14	51
Great Britain, engineering in	13	311
Gridiron valve	27	654

Mechanical — cont'd	Vol.	Page
Grinding	13	478
and pulverizing machines	8	261
Gripe	13	480
Grooving	4	172
Gross section	4	172
Grouped safety valve	27	654
Guide bars	17	579
blocks	17	579
Guiding tools	26	696
Gusset	4	172
Gwynne pumps	23	7
Gyratory crushers	8	260
Hackworth's "The Royal George" locomotive	17	566
Hand holes	4	172
	17	579
looms	29	136
pump	14	552
taps	26	697
Hardening	11	544
Harriman loom	17	651
Harris printing press	11	95
Harvester and thresher, combined	15	285
Harvesting machines	11	33
Head valve	27	654
Headley's Puffing Billy	17	566
Heart cam	18	505
Heat transformation	25	543
Heating and ventilation	14	51
surface	4	172
Heater cocks	17	579
Helical gears	12	350
springs	25	452
	25	459
High duty pump	23	9
High pressure positive blowers	4	120
High speed processes	22	482
Hoe's type-revolving cylinder printing press	15	283
Hogging	4	172
Hoist	22	266
Hollow stays	17	579
Holzwarth gas turbine	15	245
Horizontal boiler	4	172
Horological apparatus and devices	18	507
Horse power	14	549
Horse shoe machine	15	283
Hot air blast for iron furnaces	15	282
Hot air furnace	25	702
air heating	22	256
process softener	11	93
tube ignitor	15	237
water heating	22	256
	25	704
water system	14	52
Humphrey gas pump	15	246
	23	8
Hunter's screw	24	450
screw press	24	450
Huntington mill	8	261
Ice yacht construction	14	625
Icemaking machine	15	283
Ignition	14	672
valve	27	654
Illuminating water gas	15	284
Impact pulverizing machines	8	262
Inclination	4	172
Inclined plane	14	740
Incubator	14	747
Indicator cock	27	654
steam pressure	15	64
Indicators	15	64
	26	696
Indirect-acting cranes	14	540
draft furnaces	25	704
Induction ports	17	579

Mechanical — cont'd	Vol.	Page
Ingot	10	351
Injection	4	172
cock	27	654
valve	27	654
Injector	15	135
	17	579
Inlet valve	27	654
Integraphs	15	204
Interchangeable system	10	351
Intermittent motion	18	506
Internally fired boilers	4	166
Inventions, mechanical	15	281
Iron furnaces	15	281
Iron press, the first	22	598
Iron. See **Iron and Steel.**		
Jacket	17	579
steam	25	551
Jacquard attachment	17	651
loom	29	140
Jar-mills	8	262
Jeffrey coke crusher and sizer	8	260
Jenny machine	15	97
Journals	17	579
Joy's gear	27	654
Jump spark igniter	15	238
Junction valve	27	654
King bolt	17	579
Kingstone valve	27	654
Knitting machine	15	282
	16	488
first	14	424
Knuckle joints	17	579
Lacedæmonian lock	17	559
Ladder dredge	9	324
Laminated plates	4	172
springs	25	452
Langmuir condensation pump	27	689
Lap	10	351
	27	654
circle	27	654
Lathes	18	696
Latta-Martin pump	26	3
displacement pump	1	290
system, the	23	2
Laying-out shop	4	523
Layout of modern steam plant	22	491
Lazy tongs	18	505
Lead of a valve	27	654
Leakage	4	172
Lenticular stereoscope	15	283
Lever valve	24	103
Lift pump	14	553
valve	27	654
Link	17	579
block	17	579
hangers	17	579
motion for locomotives	15	283
work	22	495
Linotype machine	7	442
	15	285
improved	15	285
Little Giant and Eclipse machines	23	594
Lock-up safety valve	27	654
Locomotive	17	565
	25	547
Atlantic type	17	586
boiler performance	17	576
combustion chamber	17	572
compound	17	576
cylinder performance	17	576
economy of modern	17	576
firebox	17	572
gasoline	17	587
geared	17	577
in Scotland, first	15	282
internal combustion	17	587

Mechanical — cont'd	Vol.	Page
Mallet design	17	585
Old Ironsides	15	283
Pacific type	17	586
performance	17	574
principal parts of	17	577
steam action of	17	573
types of	17	568
Longitudinal seams	4	172
Loom	17	649
	18	649
	25	1
invention of	15	598
Loss in mechanical transmission	22	478
Lovekin film heater	17	574
Low pressure system	22	257
Lower pressures	22	481
Lucin cut-off	17	718
Lubricants	17	712
Lubricator	17	579
Luther ore conveyer	6	613
McCarthy roller gin	8	78
McCormick reaper	15	283
McKay shoe machine	24	740
Machine, barbed wire	15	284
design	9	318
	9	319
drilling, methods of	23	594
for making continuous webs of paper	15	282
ice making	15	284
screws	24	450
tools	10	351
Machinery castings	11	546
kinematics of	16	421
metal working	18	696
Machinists' drills	9	936
Magazine presses	22	595
Main reservoir	17	579
rods	17	579
Make-and-break ignition plug	15	237
Make-up water	11	93
Mangle wheel and pinion	18	505
Martens machine	25	729
Master screw	24	451
Match-making machinery	15	283
Match plate	11	544
Maybach automatic float feed carburetor	15	241
Measurement of power appliances and devices	18	506
Mechanical appliances	18	502
engineering	18	498
movements	18	502
powers	18	502
sizing	18	508
stokers	17	573
terms	18	508
theory of heat	26	527
Mechanics	18	509
Melan arch	2	150
Metal work	18	696
Metal working machinery	18	696
Milking machine	19	109
Mill	19	113
Mill and factory appliances	18	507
Miller's "The Friend" locomotive	17	566
Mills, roller flour	15	284
Minus lap	27	654
Mitre gears	29	249
valve	27	654
Mogul locomotive	17	581
Monitor injector	15	135
Monorail	19	366
Motion and controlling devices	18	507

Mechanical — cont'd	Vol.	Page
Motion weaving loom, positive	15	284
Motive power machines	18	507
Motor	10	351
	19	514
cars	2	644
miniature self-contained	22	265
trucks	2	654
wagons	2	654
Mud drum	17	579
Mud holes	4	172
	17	579
ring	17	579
ring riveter	22	266
Mule	15	97
jenny	25	415
spinner	8	79
	15	281
Multiple plate clutch	2	647
Multiple-step steam turbine	27	171
Multi-plow	22	252
Multitubular boiler	4	172
Musical instruments, mechanical	19	649
Mushroom strainer	27	654
valve	27	654
Nail-making machinery	19	683
Netting	17	579
Newspaper color presses	22	596
presses	22	594
Nilometer	20	349
Northrop loom	17	651
Nut lock	20	509
Odometer	20	585
Offset presses	22	594
Oil cups	17	579
separators	11	93
as a lubricant	5	577
valve pump	27	638
Oleometer	20	660
Olsen machine	25	729
Open heater	11	93
safety valve	27	654
Oscillation	10	351
Outside lap	27	655
Over-all efficiency	15	230
Overheating	4	172
Overpressure	4	172
Packing	17	579
	22	119
Paper cylinder machines	21	262
	21	267
Papier-maché stereotyping	15	282
Parabuckle	21	292
Parallel motion	18	505
Parautopic lock	17	560
Patch	4	172
Patina antiqua	4	589
Pattern	10	351
loom	15	282
Pebble mill	8	262
Pendulum	21	502
motions	18	506
Pepper's ghost	21	564
Perpetual motion	18	506
	21	604
devices	18	507
Pet cock	27	655
Petrotome	21	696
Petticoat pipe	17	579
Piano-player	19	649
Pianoforte, automatically played	15	283
	15	284
Pile	10	351
Pilot	17	578
	17	579
Pin	22	92

Mechanical — cont'd	Vol.	Page
Pipe	10	351
Piston	22	119
blowers	4	119
head	17	579
pump	23	5
rod	17	579
rotary pump	22	119
	23	6
Pitting	4	172
Planing machine	15	282
Plate	4	172
furnace	4	172
Platform scales	29	161
Plow, steam	15	284
Plug	27	655
cock	27	655
Plunger pump	23	5
Plunger, type of direct-acting pumps	23	12
Pneumatic buffer	22	265
elevator	8	78
hammer	22	265
percussion tools	22	265
pianoforte player	15	284
tools	22	265
	22	266
tubes	22	266
standard pressure	22	266
Pohle system of air-lift	23	4
Pop valves	24	104
Poppet valve	27	655
Portable cranes	8	157
engine	10	339
players	19	649
steam fire engine, first	15	282
Positive blowers	4	120
Pot-lid valve	27	655
Pot valve	27	655
Potter's wheel	22	453
Power, compressed air	22	480
distribution	22	479
drills	9	336
driven pumps	23	1
equipment, automobile	2	644
houses	22	486
hydraulic	22	482
loom	15	97
	15	282
	15	285
	25	4
	29	141
introduction of	15	580
plant	4	523
	12	319
platen printing press	15	282
pumps	23	6
stations, gas engine	22	484
subdivided	22	478
transmission	22	482
	22	494
automobile	2	646
by compressed air	22	482
utilization of	22	478
water	22	479
	29	26
Preliminary washers	19	194
Press	8	78
Presses at the Bethlehem plant	22	482
Presses, printing	22	590
Pressure engines	23	14
gas producer system	12	317
tank	22	265
Pressures, advantages of higher	22	481
lower	22	481
Prime mover	10	351
Primer	17	579

Mechanical — cont'd	Vol.	Page
Priming valve	27	655
Printing machine for the blind	15	283
Printing press	14	278
continuous web	15	284
with curved plates	15	283
double cylinder	15	283
web perfecting	15	284
Printing presses	22	590
Pulley	22	795
Pulmotor	22	798
Pulsometer	25	545
Pulverizers	19	188
	19	194
Pump cams	18	505
cylinders	23	1
governor	17	579
66-inch, in irrigation service	23	8
Pumps	14	552
air lift	23	3
and pumping machinery	23	4
compressed air	23	1
displacement	23	1
pneumatic	23	1
power driven	23	1
Punching bear	4	172
Puppet valve	27	655
Quarry bar	23	595
Racing	10	351
	15	104
Rack and pinion	18	504
Radius bar	17	579
	23	130
rod	23	130
Rag cutting machine	8	372
Raymond impact pulverizer and vacuum separating plant	8	262
Reach rod	17	579
Reamers	26	697
Reaming	10	351
Reaper, self-binding	15	284
Rebound check	23	265
Reciprocating engines	22	266
Reciprocating hammer	22	265
pumps	23	12
Reciprocation	10	351
Reducing	10	351
valve	27	655
Refining engine in paper pulp making	15	283
Reflux valve	27	655
Refrigerating air machines	23	312
absorption machines	23	313
machinery	23	312
Refrigeration	23	312
Refrigerator	23	318
Regenerative furnace	15	288
Regulator valve	27	676
Reithmann's hydrogen gas engine	15	243
Relief valve	27	659
	28	655
Retaining valve	27	655
Return air pump	23	3
system	23	3
Return flues	4	172
Return pipe system	23	1
tubular boiler	4	172
valve	27	655
Reverberatory furnace	10	351
	23	445
Reverse latch	17	579
Reversing lever	17	579
Reverse lever	17	579
Reversing shaft	27	655
	27	676
valve	27	655
Revolver	15	283

Mechanical — cont'd	Vol.	Page
Revolving cylinder printing press	15	282
Ribbed tubes	4	172
Ribbon loom	17	651
Ring seams	4	172
valve	27	655
Rings	4	172
Road appliances	18	507
Rock breakers, Austin gyratory	19	189
Rock excavating machinery	22	595
Rocking bar mill	23	637
Rockers	17	579
Rocket locomotive	17	581
Rod boring	4	273
Roll-drawing spinning machine	25	414
Rolls	19	188
of rolling mill	23	636
Roller bearing	23	636
machine	15	97
Rolling	10	351
mill establishments	23	637
mills	23	636
Rope and cable drive	22	495
Rope method	4	2737
Rotary blowers	4	119
disc cultivator	15	284
perfecting presses	22	594
pneumatic tools	22	265
pump	14	553
steam power printing press	15	282
steam turbine	15	285
three-color printing press (multi-color)	15	281
Rotating balance	9	495
valve	27	655
Rotation	10	351
	18	509
Rotative engine	23	14
Round bale cotton press	15	285
Round body valve	27	655
Ruling machines	23	764
Saddle pin	17	579
plate	17	579
Safety hangers	17	579
valve	24	103
	27	655
valves	17	579
	24	103
Sprayers, paint	22	266
Sand jet grinding	13	479
pipes	17	579
valve	27	655
Saturated steam	4	171
	4	173
	25	540
pressure	25	540
Saw gin	8	78
mill	24	333
mills, steam feed	15	284
nests	24	337
Saws and sawing	24	334
Saxony wheel	25	414
Scaling	4	173
Scandinavian cooking box	21	67
Schmidt firetube superheater	17	573
Scouring dredge	9	325
Screw	18	504
	23	6
	23	7
	24	450
cutting	24	451
down valve	27	655
gearing	29	249
	29	568
printing press	15	281
propeller	24	451

Mechanical — cont'd	Vol.	Page
pumps	23	7
threads	26	697
Scum cock	4	173
Seat	27	655
Seating	27	655
Sectional boiler	4	173
Seeders and planters	11	33
Self-discharging scales	29	162
Self-raker for harvesters	15	283
Setting of valves	27	655
Sewing machine	12	642
	15	283
	24	627
Shafting	22	494
Shaper	10	351
Shaping machines	18	59
Sheet steel cone clutch	2	647
Shock absorbers	24	739
Shoe sewing machine	15	284
Goodyear welt	15	284
Shuttle	24	762
Side disc valve	27	655
discharge valve	27	655
rods	17	579
Siemens gas producer	12	315
system	22	266
Silent chain	24	810
drive	18	506
Simple engine	10	339
Simplex pumps	23	9
Single-acting engine	10	338
steam engines	25	545
	25	552
Single fixed pulley	22	795
free pulley	22	796
plate clutch	2	647
Siren	25	45
Skid	25	70
Skidway	25	70
Slide valve	10	339
valve steam	25	551
valves	17	579
	27	655
Slippage	25	98
Slivering machine	25	98
Sludge cock	27	655
Smoke box	17	580
stack	17	580
	25	135
Snatch block	25	145
Snifting valve	23	9
	27	655
Snow plow	25	151
Softener heater	11	93
Soot door	4	173
Spindle	10	351
valve	27	655
Spinning	10	351
	25	414
Spinning frame	2	261
	8	79
jenny	2	261
	15	281
	25	414
	25	415
mule	8	79
ring frame	15	282
wheel	25	414
Spiral chute	7	613
pump	14	553
spring	25	452
	25	459
welding	25	604
winged valve	27	655
Spool	25	432
Sprayers, paint	22	266
Spray jet	15	241
needle valve	15	243
Spring	25	452
balances	17	580
	29	161
balance valve	27	655

Mechanical — cont'd	Vol.	Page
safety valve	27	655
	27	659
Springs	17	580
	25	459
Sprocket	25	460
chains	25	460
Sprue	11	544
Spur gearing	29	249
gears	12	350
Square body valve	27	655
Stack base	17	580
Stamp dies	19	192
heads	19	192
mill	25	475
shoes	19	192
Stamping	10	351
Starting valve	27	655
Stationary engine	10	339
steam engines	25	552
Stay bolts	17	580
bolt cutter	22	266
Stays	4	173
Steam	25	540
	29	31
appliances	18	507
calliope	19	649
carriages	25	553
chest	17	589
	27	655
coach	2	653
	15	282
coining press	7	219
cylinder	23	6
disc plows	15	285
dome	17	578
driven power houses	22	487
driven power stations	22	490
engines	10	338
fountain	25	545
gauge	17	580
hammer	15	283
heating	22	256
	22	257
jacket	25	553
	25	704
lap	27	655
locomotive in United States, first	15	282
locomotive on rails	15	282
pipe	17	580
	25	551
port	17	580
power	25	544
power appliances	18	507
pressure gauge	15	283
propulsion	5	483
pumping engine	25	547
pumping engines of the direct-acting type	23	15
pumps	14	553
	25	550
road wagon	15	282
room	4	173
shovel	13	702
stamps	19	189
turbine	10	340
	22	485
	25	546
	27	170
turbines for efficient operation	22	492
turbo generators	10	152
valve	17	580
	27	655
vehicles	25	553
whistle for locomotives	15	283
Steel. See **Iron and Steel.**		
Steering gear	2	652
mechanism	2	653

Mechanical — cont'd	Vol.	Page
Stephenson link motion.	17	573
locomotive	17	566
Stephenson's "Robert Fulton" locomotive	17	566
"The Rocket" locomotive	17	566
"The Locomotion" locomotive	17	566
Stiff-leg derrick	8	716
Stoking	10	351
Stop cock	27	655
Stop valve	27	655
Storage or secondary battery	15	284
Store cash carrier	15	284
Stourbridge Lion locomotive	8	615
	17	566
Straight lap welding	25	604
Straight-line presses	22	595
Straight-way valve	27	655
Street tubes	22	266
Stuffing	10	351
Stuffing-box	17	580
	25	754
Subdivided power	22	478
Suction gas producer system	12	318
Suction pumps	14	552
	23	4
valve	27	655
Sulzer motor	25	772
Superheated steam	25	540
Superheaters	17	573
Supply ports	17	580
Suspended platform scales	29	162
Surface drilling	23	594
Swage blocks	26	106
Swing back track channeler	23	595
Swing bolster	17	580
Synmotor	26	747
Tacheometry	26	202
Taper throttle	23	594
Tappets	19	192
Taylor gas producer	12	316
Telharmonium	5	145
Tempering	10	351
	26	405
Tender	17	580
Ten-stage turbine pump	23	8
Tesla's pump	14	553
Tesla turbine	27	173
Test cocks	27	655
Testing machines	25	729
Testing machinery	8	80
Thermal efficiency	25	543
Thermo-dynamic efficiency	25	543
Thermodynamics	26	527
Thermo-dynamic engine.	26	527
Thermo syphon cooling system	2	648
Thimble	26	553
Thread	10	351
Three-high mill	23	637
Three-speed gearset	2	648
Three-throw cam	18	505
Three-way cock	27	655
Throstle machine	25	414
Throttle	17	580
valve	27	655
Through tubes	4	173
Tide mill	26	611
Tie bolts	4	173
Tilling machines	11	32
Time lock	15	283
Toggle joint	18	505
Tom Thumb locomotive.	17	566
Tools	22	690

Mechanical — cont'd	Vol.	Page
Toothed wheels	18	503
Torsion balance	26	713
	29	161
dynamometer	9	467
Traction engine	26	745
Tractor	26	746
automobile	26	746
caterpillar	26	747
engine	11	37
	15	225
military	26	747
Trailing wheels	17	580
Train	10	351
Transmission	2	648
	10	351
of power appliances.	18	506
of power by compressed air	22	482
Transporter crane	7	613
Traveling cranes	8	157
sidewalk	27	20
Treble	27	655
Trembler spring	25	459
Tremulant	27	39
Triple expansion pumps.	23	1
valve box	27	655
Truck	17	580
brake	17	580
Try cocks	27	655
Tube mill	8	262
mills	19	188
	19	193
plates	4	173
sheets	17	580
Tubes	17	580
Tubular boilers	4	173
heater	11	93
locomotive boiler	15	282
Tumbler lock	17	559
Turbine	10	351
	27	169
axial	27	170
combined	27	170
Dow	27	172
high pressure	27	170
impulse steam	27	170
low pressure	27	170
pump	23	7
radial	27	170
steam	27	170
Tesla	27	173
water	27	169
Two-high cogging mill	23	637
pull-over	23	637
reversing mill	23	637
Two-speed gear	18	505
Type casting and setting machine	15	282
casting machines	27	235
composing machine.	7	442
	22	589
distributer	16	342
Typesetting machine, first efficient	15	283
Typewriter	3	370
	27	238
Typewriting machine	15	283
Undercutting channelers.	23	595
Universal joint	2	649
	18	505
mill	23	637
Upright channeler	23	595
Uptake	4	173
Vacuum gun-powder pump	15	243
pump	14	553
	27	638
Valve box	27	655
bridle	27	655
casing	27	655
chamber	27	655
circle	27	655

Mechanical — cont'd	Vol.	Page
cock	27	655
diagram	27	655
face	27	655
gear	27	655
gears	17	573
hammers	22	265
plate	27	655
ring	27	655
rod	27	655
rod gland	27	656
sector	27	656
spindle	27	655
spring	27	656
stem	27	656
terms	27	653
yoke	27	656
yokes	17	580
Valveless hammers	22	265
Valves	27	656
	29	106
steam	25	551
Van Winkle power meter	9	466
Vehicle springs	2	651
	27	720
Vent	4	173
Ventilation	14	430
	22	257
of the subway	25	779
Venting	11	544
Vera's rope pump	23	13
Vertical boiler	4	173
engine	10	339
Volute spring	25	459
wheel	28	183
Voting machine	28	192
Abbot	28	193
Bardwell	28	193
Waist	17	580
sheet	17	580
Walschaert radial valve gear	17	573
valve gear	17	567
Washington hand printing press	15	282
Waste	29	3
water cock	27	656
Watchmaking	29	7
Water balance	29	16
bridge	4	173
heater for steam fire engine	15	284
meter	22	479
	29	23
	29	26
raising machines	23	13
tube boiler	4	66
	4	170
	4	173
tubes	17	580
way	27	656
wheel power	11	37
Wave motor	29	116
motors	14	554
Weaving looms	8	80
Web-feeding printing press	15	284
Web presses	22	594
Weigh shaft	27	656
Welding	29	177
butt	25	604
electric	10	147
oxyacetylene	29	177
Westinghouse compressor	1	289
Winding drums	8	716
Wheel and axle	18	502
	29	248
crank	18	505
gearing	22	495
	29	248
valve	27	656
Whitworth machine	25	729
Willys-Knight motor	15	247

Mechanical — cont'd	Vol.	Page
Wing valve	27	656
Winnowing machine	29	398
Wire-drawing machine	25	606
Wire gauge	29	413
Wood mortising machine	15	282
Wood planing machine	15	282
working machinery	29	487
Workshop terms	29	523
Worm	29	558
gear	29	249
Worthington direct-acting duplex steam pump	23	9
See also Aeronautics; Automobiles and Self-propelled Vehicles; Foundry Practice, Machinery and Machine Work; Fuels and Illuminants; Iron and Steel.		

Mining

Air compressor	1	285
	13	17
lock	1	289
Arc wall or turret type of chain machine	7	156
Bailing by tanks	13	17
Banket	13	23
Bar cutters	7	154
Belt conveyor	19	178
Blasting	4	69
Bonanzas	13	23
Calaverite	4	157
	13	24
Carbonite	4	70
Caving system	19	175
Chain machines	7	154
short wall machine	7	155
Clay, methods of mining	7	70
Coal augers	7	152
cutting	7	154
mining	7	149
mining machinery	7	151
punchers	7	153
See also Fuels and Illuminants.		
Comstock lode	1	140
	7	455
	13	23
Conveyance to mill	13	17
Cover caving	19	175
Cradle	8	148
	13	16
Crushing	13	18
Cyanides	17	487
Davy lamp	8	515
Disc coal cutters	7	153
Downcast	9	288
Drainage of mines	19	173
Drift mine	7	150
	9	336
Drilling	13	17
Elimination of waste	13	17
Endless chain long-wall machine	7	156
Engineering, mining	19	179
Era of gold discovery	13	23
Evolution of mine haulage	19	176
Explosives	10	672
	19	175
Fire-damp	11	234
	12	325
Flint mill	11	358
Floor	11	361
Frasch process	26	1
Gallery	12	245

Mining — cont'd	Vol.	Page
Gases in coal	12	324
Gases in mines	12	324
Gold dredging	13	16
mining	13	14
Gravity planes	19	178
Guggenheim Exploration Company	13	665
Hoisting	19	177
Hydraulic mining	13	16
	14	553
Jig	16	146
Keystone drills	13	17
Klondike, mining in	13	24
Launder	17	104
Level	17	827
Lode claims	19	156
	19	185
mining	13	17
Longwall method	19	175
Milling	19	175
Mine	10	351
drainage of	19	173
gases	12	324
haulage	19	176
evolution of	19	176
pumps	23	14
ventilation	19	173
Miner's drill	9	337
safety lamp	15	282
Mining	19	172
	24	431
and milling machinery	19	187
engineering	19	179
geology	12	423
industry	24	579
iron ores	15	381
machinery and appliances	18	507
schools	19	181
Nome, mining in	13	24
	20	898
Nuggets	13	16
Oliver flameless powder	4	70
Open-pit mines	19	173
Ore-bin gate and spout	19	190
Ore dressing	19	188
stamp	18	505
unloader	15	285
Pittsburgh mines	22	125
Placer claims	19	156
	19	186
mining	13	15
	13	17
	19	174
Placers	22	140
Platinum mining	13	17
	22	229
Pocket mining	7	150
Poisonous gases	12	327
Prospecting	19	173
appliances	13	16
Puncher machines	7	153
Quartz mining	13	17
Reef claim	27	12
Roburite (explosive)	23	586
Rock breaking	13	18
Rocker	13	16
Room-and-pillar mining	19	174
Rotary boring machines	7	152
Safety powders	4	70
Saint John del Rey mine, Brazil	13	21
Sand wheel	24	252
Slope mine	7	150
Sluice	13	16
	25	101
mining	13	16
Stoping	19	174
Sulphur deposits	26	1
Surface haulage	19	178
Surveying of mines	26	94

Mining — cont'd	Vol.	Page
Sutro tunnel	1	140
	27	156
Sydney mines	26	157
Tamarack copper mine	29	189
Telluride	13	24
Tin (cassiterite)	13	17
Top slicing	19	175
Tramming	13	17
Transvaal, gold mining in	27	11
Underground mining	19	174
United States Bureau of Mines	22	126
Vein mining	13	17
Ventilation of mines	19	173
Wire rope	29	414
rope trams	19	178
	29	415
Witwatersrand	13	19
	13	23
	29	434
See also Mining and Mineral Resources.		

Sanitary

Activated sludge process	24	266
Aëration	23	2
Chemical precipitation process	24	265
Combined plan	22	257
Disease	9	157
	24	269
agents of	24	270
causes of	24	269
Ferrochlorine process of sterilization	29	52
Filtration	11	211
	29	47
slow sand process	29	48
Floating matter, disposal of	24	267
Garbage, burial of	24	267
Health improvement, methods for	22	761
Incineration	8	177
	24	267
Mountain streams	24	263
Ozone, application of, to water	29	51
Purifying apparatus	23	28
Refuse collection	24	267
River water, raw	24	263
Sand filters rapid	29	49
Sanitary engineering	24	262
plumbing	22	276
science	24	268
Sanitation in Panama	21	236
Sedimentation	29	48
Sewage	22	257
disposal	24	264
purification	24	265
	24	266
Sewerage	24	264
Sewers, ventilation of	24	265
	29	5
Sterilization	29	52
ferrochlorine process	29	52
Street cleaning	24	267
	25	725
Ultra-violet rays, application to water	29	52
Waste, disposal of	14	544
Water, pollution of	24	264
purification plants	24	264
softening of	29	87
supply	29	39
and purification of	24	262
	29	45

Associations

	Vol.	Page
Allied Engineers Society	5	634
American Institute of Electrical Engineers..	1	522
American Institute of Mining Engineers	1	522
American Society of Civil Engineers.....	1	563
	11	10
American Society of Mechanical Engineers....	1	563
Corps of Royal Engineers	13	311
Institution of Civil Engineers	13	312
Institution of Electrical Engineers	13	312
Institution of Mechanical Engineers.....	13	312
Smeatonian Society of Civil Engineers.....	13	311
Society of Civil Engineers	13	311
Society of Telegraph Engineers and Electricians	13	312

Biographies

	Vol.	Page
Abbott, Henry Larcom..	1	15
Abert, John James.....	1	40
Acheson, Edward Goodrich	1	87
Adair, Sir Shafto.....	7	467
Adams, Frederick Upham	1	120
Alexander, Barton Stone	1	366
Alexander, Edward Porter	1	366
Allen, Horatio.....	1	414
Allen, Zachariah.....	1	416
Andrews, William Draper	1	675
Appold, John George...	2	93
Archimedes	2	168
	7	25
	14	586
Argand, Aimé.....	2	195
Arkwright, Sir Richard.	2	261
Armstrong, William George	2	286
Arnold, Bion Joseph....	2	314
Astor, John Jacob.....	2	449
Arrol, Sir William.....	2	329
Aster, Ernst Ludwig von	2	444
Ayrton, William Edward	2	686
Babbitt, Isaac.....	3	4
Babcock, Earle Jay.....	3	4
Babcock, Washington Irving	3	5
Bain, Alexander.....	3	54
Baker, Sir Benjamin....	3	58
Baker, Charles Whiting.	3	59
Baker, Ira.....	3	60
Baker, Moses Nelson...	3	60
Barlow, Peter W.....	27	162
Barlow, William Henry.	3	259
Barry, Sir John Wolfe-Wolfe	3	286
Barry, Wales.....	13	691
Bauernfeind, Karl Maximilian von.....	3	349
Bazalgette, Sir Joseph William	3	369
Beach, Alfred Ely.....	3	370
Beach, Moses Sperry....	3	371
Beach, Moses Yale.....	3	372
Bean, Nehemiah S.....	3	377
Beighton, Henry.....	25	545
Belgrand, Marie François Eugène	3	469
Bell, Alexander Graham	3	471
Bell, Henry.....	3	474
Benham, Henry Washington	3	515
Benjamin, Charles Henry	3	517
Benschoten, Nicholas van	26	553
Benz, Karl.....	2	656
Berkeley, Sir George...	3	555
Berliner, Emile.....	3	565
Bessemer, Sir Henry....	3	587
Bigelow, Erastus Brigham	3	695
Bingham, Theodore Alfred	3	715
Binnie, Sir Alexander R.	3	716
Blaeuw, William Janson	22	591
Blake, Eli Whitney.....	4	55
Blake, Francis.....	4	55
Blanchard, Thomas.....	2	663
	4	59
	24	740
Blickensderfer, George C.	4	81
Blodgett, Samuel.....	4	102
Bodmer, Georg.....	4	146
Bogardus, James.....	4	153
Bogart, John.....	4	153
Bogue, Virgil Gay.....	4	156
Boller, Alfred Pancoast.	4	192
Bollmann, Wendall.....	4	502
Borda, Jean Charles....	4	264
Borden, Simeon.....	4	267
Bouch, Sir Thomas.....	4	320
Bouchette, Joseph.....	4	322
Boulton, Matthew.....	4	329
Bouquet De La Grye, Jean Jacques Anatole.	4	345
Bovey, Henry Taylor...	4	357
Boyden, Seth.....	4	374
Bramah, Joseph.....	14	585
Brassey, Thomas.....	4	419
Breckenridge, Lester Paige	4	457
Bréquet, Abraham Louis	4	462
Bréquet, Louis François Clément	4	462
Brennan, Louis	4	466
Brewerton, Henry.....	4	475
Brialmont, Henri Alexis.	4	487
Bright, Charles.....	4	538
Bright, Sir Charles Tilston	4	538
Brindley, James.....	4	531
	4	542
Brown, John Hamilton..	4	609
Brown, Sir Samuel.....	4	611
Brunel, Isambard Kingdom	4	632
Brunel, Sir Marc Isambard	4	633
	27	161
Brunings, Christian.....	4	634
Brunlees, Sir James....	4	634
Brush, Charles Francis	4	639
Buckland, Cyrus.....	4	667
Bullock, William.....	22	594
Bullock, William A.....	5	17
Burden, Henry.....	5	34
Burgess, Charles Frederick	5	38
Burr, Theodore.....	4	502
Burr, William Hubert..	5	64
Cagnot, Nicholas.....	17	565
Cahill, Thaddeus.....	5	145
Cain, William.....	5	147
Callaway, Samuel Rodger	5	226
Calley, John.....	25	545
Campbell, Andrew.....	22	593
	22	595
Canning, Sir Samuel...	5	505
Canton, John.....	5	535
Carhart, Henry Smith..	5	607
Carlyle, William Arthur	5	627
Carnall, Rudolph von...	5	630
Carpenter, Louis George	5	653
Carpenter, Rolla Clinton	5	653
Carroll, Howard.....	4	519
Cartwright, Edmund....	5	686
	15	97
	17	650
Carty, John J.....	26	369
Cassatt, Alexander Johnston	5	708
Caulx, Salomon de.....	6	131
Caus, Salomon de.....	6	131
Cavallo, Tiberius.....	6	138
Cessart, Louis Alexandre de	6	231
Chappe, Claude.....	6	298
Charpentier, Johann F. W. T.	6	335
Chenoweth, Alexander C.	6	412
Chittenden, Hiram Martin	6	571
Church, D. H.....	29	9
Church, Irving Porter..	6	653
Church, John Adams...	6	653
Clark, (Josiah) Latimer	7	43
Clifford, Harry Ellsworth	7	103
Clifford, John.....	19	688
Codazzi, Agostino.....	7	194
Coehorn, Menno.....	7	205
Cohen, Mendes.....	7	216
Coignet, E.....	7	467
Coignet, François.....	7	467
Colburn, Zerah.....	7	234
Colby, Edward A.....	25	569
Colby, Thomas Frederick	7	234
Colles, Christopher.....	7	264
Colt, Samuel.....	7	332
Conrad, Frederik Willem	7	536
Conti, Nicholas Jacques.	7	583
Cooke, Sir William Fothergill	7	625
Cooley, Mortimer Elwyn	7	632
Corliss, George Henry..	7	697
Cornell, Ezra.....	7	711
Cort, Henry.....	8	25
Corthell, Elmer Lawrence	8	27
Cotton, William.....	14	424
Courtenay, Edward Henry	8	125
Cowper, A. E.....	26	336
Cox, Lemuel	11	315
Craighill, William Price	8	150
Cramp, Charles Henry..	8	152
Crampton, Thomas Russel	8	152
Crandall, Charles Lee..	8	155
Craven, Alfred Wingate.	8	164
Crocker, Francis Bacon.	8	217
Croes, John James Robertson	8	219
Crompton, Samuel.....	8	79
	8	222
Crowell, Luther C.....	20	287
Cubitt, Sir William.....	8	289
Cullen, William.....	14	623
Daimler, Gottlieb.....	2	656
	2	663
Dalén, (Nils) Gustaf....	8	415
Daniels, Fred Harris...	8	457
Davies, J. Vipond.....	27	153
Davis, Arthur Powell...	8	508
Davis, Phineas.....	17	581
De Forest, Lee.....	8	593
Delafield, Richard.....	8	605
Delaunay-Belleville, Louis	8	608

Biographies — cont'd	Vol.	Page
Deprez, Marcel	8	704
Derosne, Charles	8	714
Dewitt, Moses	9	49
Dewitt, Simeon	9	50
Dickie, George William	9	83
Diesel, Rudolf	9	100
	15	228
Dircks, Henry	9	143
Dod, Daniel	9	218
Dodge, Grenville Mellen	9	220
Dodge, James Mapes	9	220
Doherty, Henry Latham	9	233
Dolbear, Amos Emerson	9	233
Douglas, James	9	279
Draeger, Bernard	22	798
Drown, Thomas Messinger	9	341
Droz, Pierre-Jacquet	9	343
Duane, James Chatham	9	367
Dubois, Augustus Jay	9	373
Dudgeon, Richard	2	663
Dudley, Plimmon Henry	9	383
Duffield, William Ward	9	387
Duncan, Louis	9	401
Dunlap, James	5	658
Dunn, Gano	9	406
Durand, William Frederick	9	417
Dwelshauvers-Dery, Victor	9	446
Eads, James Buchanan	9	473
	26	326
Earle, Pliny	9	486
Eckert, Thomas Thompson	9	545
Eddy, Henry Turner	9	576
Edison, Thomas Alva	9	587
Edwards, William	9	712
Eiffel, Alexandre Gustave	10	27
Elder, John	10	56
Ellet, Charles	10	252
Ellicott, Andrew	10	253
Ely, Theodore Newel	10	268
Engerth, Wilhelm Baron	10	337
Ensign, Orville Hiram	10	398
Ericsson, John	10	475
	19	154
Ericsson, Nils	10	475
Ernst, Oswald Herbert	10	482
Evans, Oliver	2	663
	10	592
Everest, Sir George	10	596
Eytelwein, Johann Albert	10	685
Fairbairn, Sir William	10	716
Fanning, John Thomas	11	10
Fanner, Moses Gerrish	11	38
Favre, Louis	11	70
Fee, William R	8	86
Ferguson, Louis Aloysius	11	123
Ferraris, Galileo	11	138
Ferris, George Washington Gale	11	141
Fessenden, Reginald Aubrey	11	152
Field, Stephen Dudley	11	181
Fink, Albert	11	223
Firman, L. B	26	371
Fisher, J. K	2	663
Fiske, Bradley Allen	11	295
Fitch, John	11	298
Fitzgerald, Desmond	11	300
Fitzmaurice, Sir Maurice	11	302
Flad, Henry	11	307
Flather, John Joseph	11	336
Fleming, John Ambrose	11	344
Fleming, Sir Sanford	11	345
Forbes, George	11	460
Föttinger, Hermann	11	531
Fowler, Sir John	11	592

Biographies — cont'd	Vol.	Page
Francis, James B	11	757
	29	29
Francis, Joseph	11	757
Frankhofer, Joseph von	9	198
Franklin, Benjamin	12	8
	25	702
Franklin, William Suddards	12	13
Frasch, Herman	12	21
	26	1
Frontinus, Sextus Julius	12	123
Fteley, Alphonse	12	141
Fuertes, Estevan Antonio	12	148
Fuertes, James Hillhouse	12	148
Fulton, Robert	11	298
	12	157
Gaillard, David Du Bose	12	227
Galbraith, John	12	233
Galton, Douglas	5	577
Gamble, Francis Clark	12	262
Gatling, Richard Jordan	12	337
Garbe, Robert	17	586
Gerber, Johann Gottfried Heinrich	12	495
Gerhard, William Paul	12	495
Gilbert, Rufus Henry	12	649
Girard, Philippe Henri de	12	663
Gisborne, Frederick Newton	12	668
Gleason, Elliott Perry	12	713
Goddard, Calvin Luther	12	744
Goethals, George Washington	12	752
Goetze, Frederick Arthur	13	6
Going, Charles Buxton	13	8
Grader, G. W	8	86
Graham, Charles Kinnaird	13	106
Graham, James Duncan	13	107
Graham, W. A	11	235
Gray, Elisha	13	165
Greathead, James Henry	13	366
	25	776
	27	162
Greene, George Sears	13	428
Griffith, Sir Richard John	13	471
Griffith, Robert Stanislaus	13	471
Grubermann, Ulrich	4	502
Grund, Franz Friedrich Alexander	13	504
Gruson, Hermann	13	505
Guérard, Adolphe	13	524
Guieysse, Pierre Paul	13	533
Gurney, Goldsworth	2	663
Gurney, Sir Goldsworthy	13	576
Gzowski, Sir Casimir Stanislaus	13	599
Hagen, Gotthilf	13	614
Hale, Irving	13	633
Hammond, John Hays	13	665
Hancock, Thomas	23	739
	25	553
Hancock, Walter	2	663
Hargreaves, James	8	79
	13	708
	15	97
Harris, Frederic Robert	13	724
Harrison, Joseph	13	729
Haswell, Charles Haynes	13	752
Haupt, Herman	13	759
Haupt, Lewis Muhlenberg	13	759
Haynes, Elwood	14	21
Heap, David Porter	14	35
Henry, Joseph	14	106
Hering, Rudolph	14	128
Herschel, Clemens	20	24

Biographies — cont'd	Vol.	Page
Hewitt, Peter Cooper	14	162
Hills, F	2	663
Hodgkinson, Eaton	14	308
Holden, Sir Isaac	14	315
Holley, Alexander Lyman	14	319
Holt, Benjamin	26	747
Hoover, Herbert Clark	14	370
Horrocks, William	17	650
Hotchkiss, Benjamin Berkely	13	561
	14	436
Houston, Edwin James	14	449
Howd, Samuel B	29	29
Howe, Elias	4	526
	14	455
Howe, John Ireland	14	456
Howe, William	4	502
Hughes, David Edward	14	478
Humphreys, Alexander Crombie	14	495
Humphreys, Andrew Atkinson	14	495
Hunnings, Henry	26	367
Hutton, Frederick Remsen	14	531
Hyatt, Thaddeus	7	467
Jackson, Dugald Caleb	15	578
Jacobs, Charles M	27	153
Jacquard, Joseph Marie	15	593
	17	651
	25	5
Jadwin, Edgar	15	594
James, William Henry	2	663
Jenkin, Henry Charles Fleming	16	13
Johnson, John Butler	16	173
Jouffroy D'Abbans, Claude François Dorothée	16	215
Katte, Edwin Britton	16	317
Katte, Walter	16	317
Kaufmann, Konstantin Petrovitch	16	320
Kaufmann, Nicolaus	16	320
Kay, John	15	96
	16	323
	17	650
Keefer, George Alexander	16	332
Keefer, Samuel	16	332
Keefer, Thomas Coltrain	16	332
Keely, John Ernest Worrell	16	333
Kellogg, George	16	342
Kelly, William	16	344
Kennedy, Sir Alexander	16	355
Kennedy, Sir John	16	356
Kennelly, Arthur Edwin	16	357
Kent, William	16	362
Kinealy, John Henry	16	421
Kinloch, Andrew	17	650
Kirchhoff, Charles William Henry	16	453
Knight, Edward Henry	16	482
Knowles, Lucius James	16	498
Koester, Frank	16	507
König, Frederick	16	516
	22	598
Lancaster, William Joseph Cosens	16	686
Lanza, Gaetano	16	788
Lartique, M. Charles	19	366
Lay, John Louis	17	156
Leavitt, Erasmus D	17	205
Ledoux, Albert Reid	17	215
Leferts, Marshall	17	233
Lee, Sir Richard	13	311
Lee, William	14	424
	25	661
L'Enfant, Pierre Charles	17	285

Biographies — cont'd	Vol.	Page
Lenoir, Jean Joseph Etienne	2	663
Leonard, H. Ward	17	302
Lesseps, Ferdinand	17	316
	25	789
Lineback, J.	8	85
Linville, J. H.	4	519
Littlefield, D. G.	25	702
Littlehales, George Washington	17	524
Long, Stephen Harriman	17	636
Longstreet, William	17	648
Loree, Leonor Fresnell	17	660
Lowe, Thaddeus S. C.	17	699
Lyall, James	17	768
Macadam, John Loudon	18	4
McAllister, Addams Stratton	18	6
McAlpine, William Jarvis	18	7
McCormick, Cyrus Hall	18	28
McCormick, John B.	29	29
McCormick, Leander James	18	29
McDonald, John Bartholomew	18	37
McKay, Gordon	18	63
Macdonald, Charles	18	35
Macdonald, Hunter	18	36
Mahan, Dennis Hart	18	134
Malus, Etienne Louis	18	171
Manby, George William	18	196
Mannlicher, Ferdinand	18	231
Marconi, Guglielmo	18	273
Marinoni, Hippolyte	18	291
Markle, John	18	301
Marquis of Worcester	25	544
Marsh, Sylvester	18	324
Marshall, James Wilson	13	23
Marshall, William Louis	18	328
Martin, Charles Cyril	18	336
Martin, Thomas Commerford	18	338
Martinez, Enrico	18	341
Martinez, Enriquez	18	341
Masham, Samuel Cunliffe Lister	18	377
Massey, Hart Almerni	18	416
Maudsley, Henry	24	450
Mauser, Paul von	18	452
Maxim, Sir Hiram Stevens	18	455
Maxim, Hudson	18	455
Maynard, Edward	18	467
Mawer, Charles Drawn	19	541
Meier, Edward Daniel	18	596
Meiggs, Henry	18	596
Meigs, Montgomery	18	596
Melville, George Wallace	18	611
Menocal, Aniceto Garcia	18	635
Mergenthaler, Ottmar	18	672
Merrill, William Emery	18	680
Merriman, Mansfield	18	681
Merritt, William Hamilton	18	681
Mershon, Ralph Davenport	18	682
Michie, Peter Smith	18	18
Middleton, Sir Hugh	19	659
Mill, Henry	27	232
Miller, Lewis	19	120
Mills, Hiram Francis	19	128
Mills, John	19	127
Minié, Claude Etienne	19	172
Mitchell, Henry	19	266
Modjeski, Ralph	19	288
Molesworth, Guilford Lindsey	19	323
Monier, J. F.	7	467
Moncrieff, Alexander	19	342
Montalembert, Marc René	19	383
Montgolfier, Jacques Etienne	19	407
Montgolfier, Joseph Michel	19	407
Moore, Robert	19	433
Mordecai, Alfred	19	443
Morgan, Charles Hill	19	449
Morland, Sir Samuel	19	460
Morse, Samuel Finley Breese	19	483
Morse, Sidney Edwards	19	484
Morey, Samuel	19	449
Morin, Arthur Jules	19	459
Morrison, George Shattuck	19	459
Mott, Jordan L.	25	702
Mulholland, William	19	555
Munroe, Henry Smith	19	595
Munson, James Eugene	19	596
Murdock, William	17	565
	19	604
Myddelton, Sir Hugh	19	659
Myers, Jacob H.	28	192
Nasmyth, James	19	718
Neilson, James Beaumont	20	62
Newcomen, Thomas	15	97
	20	265
	25	545
Newell, Frederick Haynes	20	266
Newton, John	20	291
Nicholson, Henry Hudson	20	319
Noble, Alfred	20	385
Nordenfelt, Torsten Wilhelm	20	397
Norton, James St. Clair	19	490
Nott, Eliphalet	20	460
Ockerson, John Augustus	20	570
Ogden, Francis Barber	20	604
Olcott, Eben Erskine	20	643
Oliver, James	22	252
	20	666
Orr, Hugh	21	10
Orr, Isaac	25	702
Otis, Elisha Graves	21	42
Otto, August N.	15	228
Taixhaus, Henri Joseph	21	132
Palliser, Sir William	21	210
Palmer, Timothy	4	502
Papin, Denis	9	108
	21	269
	22	266
Parsons, Charles Algernon	21	349
Parsons, William Barclay	21	351
Pascal, Blaise	20	486
	21	362
Pasley, Sir William Charles	21	366
Patterson, Carlile Pollock	21	408
Patton, Frank Jarvis	21	411
Paul, Lewis	21	413
Peabody, Cecil Hobart	21	437
Pegram, George Herndon	21	472
Pender, Harold	21	500
Pender, Sir John	21	500
Pepper, John Henry	21	564
Perkins, Jacob	14	623
	21	600
Perks, Sir Robert William	21	601
Plympton, George Washington	22	265
Polhem, Christopher	22	301
Pope, Franklin Leonard	22	360
Porter, Charles Talbot	22	389
Potter, Humphrey	25	545
Pratt, John Francis	22	512
Pratt, W. F.	8	86
Prescott, George Bartlett	22	543
Prony, Gaspard Clair François Marie Riche	22	657
Pullman, George Mortimer	5	579
	22	798
Pupin, Michael Idvorsky	23	24
Rae, Charles Whiteside	23	131
Rains, George Washington	23	194
Rankine, William John MacQuorn	23	213
Rateau, A.	27	172
Raymond, Rossiter Worthington	23	240
Raymond, William Galt	23	240
Read, Nathan	23	246
Reed, Ezekiel	19	683
Reeves, David	4	519
Remington, Philo	23	365
Rennie, George	23	377
Rennie, John	23	377
	23	378
Reno, Jesse Wilford	23	378
Renwick, Edward Sabine	23	382
Reynolds, Edwin	23	452
Rice, Edwin Wilbur	23	485
Richards, Charles Brinckerhoff	23	491
Richards, Robert Hallowell	23	492
Ricketts, Palmer Chamberlaine	23	509
Ritty, Jacob	5	701
Rives, Alfred Landon	23	555
Robert, Henry Martyn	23	565
Roberts, Richard	17	650
Roberts, William Milner	23	570
Robinson, Sir Clifton	23	579
Roebling, John Augustus	4	506
	23	625
Roebling, Washington Augustus	23	625
Rogers, Fairman	23	627
Rogers, Henry J.	23	628
Romano, Giulio	12	669
Romanoff, Hippolyte	19	368
Roosevelt, H. L.	26	369
Roosevelt, Nicholas J.	19	680
	23	680
Roper, S. H.	2	663
Rosewater, Andrew	23	700
Ruhmkorff, Heinrich Daniel	23	763
Rumsey, James	23	774
Rushforth, William Henry	23	781
Russell, Clarke	13	312
Salomons, Sir David Lionel Goldsmith-Stern	24	196
Saunders, William Lawrence	24	320
Savery, Thomas	24	328
	25	545
Schmidt, Wilhelm	17	586
Schneider, Charles Conrad	24	383
Schreiber, Sir Collingwood	24	402
Scott, Charles Felton	24	438
Scovel, Sylvester	24	448
Scribner, Charles E.	26	371
See, Horace	24	526
Sellers, Coleman	24	544
Sellers, Matthew Bacon	24	544
Sellers, William	24	544
Serrell, Edward Wellmann	24	601

Biographies — cont'd	Vol.	Page
Shaffner, Taliaferro Preston	24	638
Shanly, Walter	24	658
Sheldon, Samuel	24	682
Shonts, Theodore Perry	24	742
Siemens, Ernst Werner von	24	793
Siemens, Karl Wilhelm	24	793
Siemens, William	25	566
Sigl, Georg	24	799
Sims, Winfield Scott	25	30
Singer, Isaac Merritt	25	34
Skinner, Halcyon	5	658
Sloane, Thomas O'Conor	25	98
Smeaton, John	13	311
	22	396
	25	109
	25	545
Smith, Albert William	25	112
Smith, David M	25	115
Smith, Francis Hopkinson	25	116
Smith, Francis Pettit	25	116
Smith, James Waldo	25	123
Smith, William Sooy	25	130
Somerset, Edward	25	544
Spalding, Frederick Putnam	25	341
Spear, James	25	365
Spencer, Asa	8	104
Sperry, Elmer Ambrose	25	401
Sprague, Austin Velorous Milton	25	448
Sprague, Frank Julian	25	449
Staley, Cady	25	473
Stanton, Robert Brewster	25	487
Stearns, Frederick Pike	25	561
Steinheil, Karl August	25	611
Steinmetz, Charles Proteus	25	612
Stephenson, George	13	312
	25	621
Stephenson, Robert	17	581
	25	621
Stevens, Edwin Augustus	25	635
Stevens, John	14	305
	25	636
Stevens, John F	25	637
Stevens, Robert Livingston	25	637
Stevenson, Robert	4	502
	25	640
Stewart, P. P	25	703
Stilwell, Lewis Buckley	25	650
Stone, Marvin Cheater	25	678
Stott, Henry Gordon	25	701
Street, Robert	15	243
Sturgeon, William	25	755
Sutro, Adolph Heinrich Joseph	26	103
Swain, George Fillmore	26	106
Swan, Sir Joseph Wilson	26	109
Sweet, John Edson	26	126
Symington, William	26	165
Tainter, Charles Sumner	26	218
Talbot, Arthur Newell	26	220
Taylor, Frederick Winslow	26	298
Telford, Thomas	13	311
	26	400
Tesla, Nikola	14	556
	26	452
Thayer, Benjamin Bowditch	26	490
Thayer, Eli	26	490
Thayer, Sylvanus	26	490
Thomson, Elihu	26	582
Thomson, J. Edgar	21	537
Thomson, James	26	583
Thomson, Sir William	26	338
Thorne, Joseph	26	587
Thornycroft, Sir John Isaac	26	589
Thurston, Robert Henry	26	603
Timby, Theodore Ruggles	26	629
Totten, Joseph Gilbert	26	717
Trautwine, John Cresson	27	17
Treadwell, Daniel	22	599
	27	21
Tregear, Edward	27	36
Trevithick, Richard	2	663
	17	566
	27	51
Trimble, Isaac Ridgeway	27	65
Tripler, Charles Eastman	27	74
Trowbridge, William Petit	27	98
Turchin, John Basil	27	175
Turchininoff, Ivan Vasilevitch	27	175
Turnbull, William	27	202
Twining, A. C	14	623
Tyrrell, James Williams	27	247
Unwin, William Cawthorn	27	582
Upchurch, John Jorden	27	583
Uvaldi, Guido	24	821
Vail, Alfred	27	640
Varilla, Philippe Bunau	27	689
Vernon-Harcourt, Leveson Francis	28	33
Vetillart, Marie Michel Henri	28	54
Voss, George Leonard	28	187
Waddell, John Alexander Law	28	205
Wait, John Cassan	28	214
Wallace, John Findley	28	237
Waring, George Edwin	28	704
Watt, James	13	311
	15	97
	25	545
	29	111
Welch, Ashbel	29	176
Wellington, Arthur Mellen	29	180
Wells, F. A	8	86
Wernway, Lewis	4	502
Westinghouse, George	1	277
	29	223
Westlake, William	29	224
Weston, Edward	29	226
Wheeler, Nathaniel	7	252
	29	251
Whipple, Squire	29	257
White, A. C	26	367
Whiting, C	8	85
Whitney, Eli	8	78
	15	97
	29	283
Whittemore, Amos	29	283
Whitney, Willis Rodney	29	284
Whitworth, Sir Joseph	24	450
	29	287
Wiard, Norman	29	289
Wilgus, William John	29	317
Williams, J. R	11	106
Williams, Jonathan	13	98
	29	343
Wilson, Allen Benjamin	29	356
Wilson, John Moulder	29	361
Winans, Ross	17	581
	29	371
Winans, Thomas De Kay	29	371
Wood, De Volson	29	471
Wood, Walter Abbot	29	475
Woodbury, Daniel Phineas	29	492
Worcester, Edward Somerset	29	510
Worcester, Marquis of	25	553
Worthen, William Ezra	29	562
Worthington, Henry Rossiter	23	15
	29	562
Yale, Linus	17	560
	29	607

ETHNOLOGY AND ANTHROPOLOGY

General	Vol.	Page
Aborigenese	1	45
Anthropophagi	2	24
Adaptation	1	129
Alpine type	23	109
Americanists	1	525
Ammon's law	1	578
Anglo-Indians	1	686
	19	275
Anglo-Israelite theory	1	686
Anthro-ethnological type of Britain	23	100
Anthropology	2	20
	14	256
in America	2	22
Anthropometry	2	24
	22	33
Antiquity of man	17	773
Aryan race	2	372
Assyriology	2	434
Autochthones	2	641
Azilians	25	683
Azilian-Tardenois men	25	683
Brachycephalic types	23	100
Bureau of American Ethnology	25	133
Cannibal	5	609
Caucasian race	6	126

General — cont'd	Vol.	Page
Cave dwellers	2	153
	6	144
Cave man	25	681
Civilization	7	21
European	29	526
Convergent development, theory of	14	256
Couvade	8	128
Creole	8	179
Louisiana	17	685
Dawn man	18	191
Diffusion, doctrine of	14	256
Dolichocephalic	9	235
	23	109
Dwarf	9	445
Egypt, Upper, oldest inhabitants of	2	156
Engis skull	10	352
Eoanthropus dawsoni	18	191
Ethiopianism	10	548
Ethnography	10	548
Ethnology	10	549
	10	550
Mexican	18	779
Eurafrican stock	23	109
Eurasian	19	275
varieties	23	109
European civilization, dynamic forces of	29	527
Evolution, ritual	23	541
Exogamy	10	640
Extinction, tribal	10	668
Finger prints	11	222
Folk psychology	11	417
French type	23	110
Gypsies	13	591
Heidelberg man	2	21
	14	69
Homo heidelbergensis	2	21
neanderthalensis	2	21
	25	681
Immigration	14	713
Index	14	750
cephalic	14	750
cranial	14	750
dolicocephalic	23	110
facial	14	750
frontal	14	750
head	23	108
nasal	14	750
orbital	14	750
India, ethnology of	15	10
Indians, North American	15	43
	25	683
Japan, ethnology of	15	628
Japanese waifs in America	15	747
Java, ethnology of	15	756
Laguna	16	377
Lansing man	16	736
Leiotrichi	2	21
Linguistic characters	2	21
Long-headedness	23	108
Magdalenian epoch	13	511
Magdalenians	25	682
Man	1	130
	2	159
Christian anthropology	18	181
Heidelberg	2	21
Lansing	16	736
Neanderthal	2	21
	25	681
prehistoric races of	18	188
Mediterranean type	23	109
Mestizos	18	694
	19	275
Metis	18	694
Mixed races	19	274
Mongolian type	11	90
Mulatto	19	274
Nanticoke	19	690

General — cont'd	Vol.	Page
Nationality	19	765
Neanderthal cave dwellers	25	681
man	23	109
race	25	681
skeleton	18	188
Neolithic age	2	154
men	25	683
period	20	73
Paleolithic Period	21	180
Pariah	21	299
Patriarchal system	21	401
Physical characteristics	23	108
Piltdown skull	18	191
Pithecanthropus erectus	2	21
	22	121
Pre-Chelleans	25	680
Proper names	26	88
Psychology, ethnic	22	743
Pueblo Pantheon	22	790
religious organization	22	790
woman-status of	22	789
Quadroon	23	54
Quarteroon	23	54
Quiché	23	87
Races, effect of climate on	7	107
origin of	23	107
Red-skinned racial base	23	109
Retribution	23	436
Saracens	24	293
Sarmatian	24	305
Scolotes	24	471
Scythians	11	227
	24	471
Siberia, ethnology of	24	770
Somatic characters	2	21
Talisman	26	225
Telegony	26	327
Teutonic type	23	109
Totemism	26	89
Tribal society	19	744
Tribe	27	53
Troglodytes	27	82
Tuareg	2	680
	27	119
Ugrian	27	253
Ulotrichi	2	21
Zoomorphic	29	731

Races and Tribes

NORTH AND CENTRAL AMERICA

Races and Tribes — cont'd	Vol.	Page
Abenaki (Algonkin)	5	409
Aboriginal population of Canada	5	408
Absoruque	8	245
Acoma	16	377
Akome	16	377
Alaska, native of	1	317
Algonkian stock	1	397
	15	46
Algomekin	1	398
Algonquian stock	1	397
Algonquin	1	398
	5	409
	15	390
Amerinds	1	568
	15	43
Arapaho	13	486
Arctic man	2	161
Asaroka	8	245
Ashivi	29	739
Ashochimi	2	387
Asian-American group	2	21
Assiniboin	2	423
Assiniboine (Siouan stock)	2	423
	5	409
Athabascan tribes (Athabaskan stock)	5	409
Athapascan family	18	783
Indians	27	212
	15	46
Aztecs	2	163
	23	541
Banak	8	130
Bankalachi	16	379
Bannock	3	130
Bella Bella (Wabaskan stock)	5	409
Bella Coola (Salish stock)	5	409
Biloxi Indians	8	709
Blackfeet	4	41
	13	486
Blackfoot (Algonkin stock)	5	409
Caddoan Indians	5	132
Cakchiquel	5	152
Callapooya	16	281
Caughnawaga	15	390
Cayugas	6	155
	15	390
	25	49
Central American stocks	15	48
Chahiksichhiks	21	430
Chahta	6	581
Chapanecs	6	435
Cherokees	6	415
	15	390
Cheyenne	6	433
Chiapanecs	6	435
Chickahominy	22	269
Chinanteco	18	783
Chinook	6	560
Chippewa (Algonkin stock)	5	409
Choctaw	6	581
Chopunnish	6	599
Cliff-dwellers	7	101
Coast Salish (Salish stock)	5	409
Cocama	7	180
Cochite	16	377
Coco maricopa	18	284
Cœur D'Aléne	7	209
Comanche, Camanche, Chouman, Comande	7	347
Conestoga or Conestogas	7	486
Copha	7	649
Cotifachiqui	27	250
Crees	8	174
Creeks	8	175
Creole Negro	17	685
Crow Indians	8	245
Dakota	8	412
Dakotah	8	412
Delaware (Algonkin stock)	5	409
	8	615
	28	218
Dog soldiers	6	433
Dusty noses	15	302
Dyiwa	16	377
Eddy people	29	123
Erie	10	475
	15	390
Eskimo	2	189
	10	498
	15	44
Esquimaux	10	498
Five Nations	15	47
	15	390
Flathead Indians	11	336
	24	187
Fox Indians	24	86
French Canadian	5	402
Gendat	29	579

Races and Tribes— cont'd	Vol.	Page
Gros Ventres	18	486
Guyandotte	29	579
Haida (Haida or Skittagaton stock)	5	409
	13	618
Hidatsa	18	486
Hopi	19	810
	22	789
	24	755
	27	209
Huastecs	14	463
	18	784
Hungry Men	18	486
Hupa	14	520
Hurons	5	409
	15	390
	29	579
Icelanders	5	408
	14	628
Illinois	14	696
	15	390
Indians, American	2	160
	14	658
	15	43
	25	683
Canadian	15	58
habits, customs and appearance of	15	59
of the West	15	60
Iowas	15	302
Iroquoian family	15	390
stocks	15	47
Iroquois	25	49
League	15	47
	15	390
Itzas	15	560
	18	462
Jicarilla	16	146
Kai-Pomo	16	277
Kalapuya	16	281
Kalispel or Pend d'Oreille	16	284
Kaniengehaga	19	308
Kansa	16	294
Kansas Indians	16	301
Karankawan	16	309
Karok	16	310
Kaskaskia	16	312
Katishtya	16	377
Kato	16	316
Kaw	16	294
	16	323
Kawaik	16	377
Kawaiisu	16	323
Keresan	16	376
Kern River Shoshoneans	16	379
Kickapoos	16	399
Kiowa	16	452
Kiwa	16	377
Klamath	16	469
Klikitat	16	472
Kotviti	16	377
Kutchin	16	562
Kutenai	5	409
Kwakiutl (Wabaskan stock)	5	409
Kwalhiokwa	16	563
Lencan	17	284
Lencas	17	284
Lenni Lenapé	8	615
	28	218
Linguistic stocks	15	45
Maccaw	18	157
Mackah	18	157
Mackaw	18	157
Mahican	18	136
Maidu people	18	139
Makaw	18	157

Races and Tribes— cont'd	Vol.	Page
Malecites (Algonkin stock)	5	409
Mandan	18	204
Maricopa	18	284
Mariposan	18	298
Mascouten	18	377
Mashpee	18	378
Maskegon	18	378
Massachuset	18	399
Maya family	18	462
	18	784
Mayan stock	15	48
Mayas	15	44
Mayo	18	469
Menominee	18	635
Miami	15	390
	19	8
Mi-Caw	18	157
Micmacs	5	409
	19	32
Minnetari	18	486
Mission Indians	19	228
Missisaga Indians	19	242
Mistec	19	276
Mixtec	19	276
Mixteca Zapoteca	18	783
Modoc Indians	19	289
Mohave Indians	19	307
Mohawks	15	390
	15	391
	19	308
	25	49
Mohegan Indians	19	308
Mohicans	15	390
Mojave Indians	19	307
Moki	19	310
	24	755
Monhegan Indians	19	308
Montagnais Indians	5	409
	19	380
Montauk Indians	19	396
Moquelumnan	19	436
Moqui Indians	19	437
	27	209
Mound Builders	15	44
	19	521
Munsee Indians	19	596
Muskhogean stock	8	175
	15	47
Muskwaki	24	86
Nahua	18	781
	19	681
Naltunnetunne Indians	19	685
Narragansett Indians	19	706
Nascopee Indians	19	712
Nascopi Indians	19	712
Natives of Alaska	1	317
Navajoh Indians	19	784
Niantic	20	299
Nipissing Indians	20	367
Nipmuc Indians	20	367
Nisqualli Indians	20	370
Nootka Indians	5	409
	20	397
Norridgewack Indians	20	407
North American stocks	15	46
Nottoway Indians	20	460
Occaneechi Indians	20	555
Ojibwas	5	409
	15	390
Ojibway	20	632
Okinagan	20	635
Omaha	20	676
Oneidas	15	391
	20	689
	25	49
Ongwanonsionni	15	390
Onondaga Indians	20	692
	25	49
Opata Indians	20	698
Osages	21	15

Races and Tribes— cont'd	Vol.	Page
Ossetes	21	23
Othomis	21	44
Oto	21	44
Otomi	18	782
	21	44
Ottawa	15	390
Oueres	16	376
Palaihnihan Indians	21	134
Palinchas	15	302
Pamlico Indians	21	229
Papajo Indians	21	255
Passamaquoddy Indians	21	367
Pawnee Indians	21	430
Pennacook Indians	21	516
Penobscot Indians	21	540
People of the Long House	15	390
Peoria Indians	21	562
Pequot Indians	21	569
Piankshaw Indians	22	32
Piegan Indians	22	73
Pima Indians	22	91
Piman stock	22	90
Pimo Indians	22	91
Pit River Indians	21	134
	22	119
Piute Indians	22	139
Plain Cree (Algonkin stock)	5	409
Pokanoket	22	285
Pomo	22	342
Ponca Indians	22	346
Pottawatomi (Algonkin stock)	5	409
	22	451
Powhatan	22	498
Praying Indians	22	517
Pueblo Indians	15	48
	22	788
Indians, dress	22	788
Indians, houses	22	789
Indians, industries	22	789
Indians, physical characters	22	788
tribes, population	22	790
Puyallup	23	37
Quinnipiac	23	96
Quoratean Indians	23	101
Renards	24	86
Rio Grande tribes	18	788
Rogue River Indians	23	632
Sac	24	86
Saint Regis Indians	15	391
	24	167
Salinan Indians	24	185
Salish Indians	5	409
	11	336
Salishan Indians	24	187
San Felipe	16	377
Santa Ana	16	377
Santiam	16	281
	24	285
Santo Domingo	16	377
Sarcee (Athabaskan stock)	5	409
Seminoles	24	546
Seneca Indians	24	559
	25	49
Seri	15	44
	24	592
Shahaptian Indians	24	641
Shahaptian stock	15	49
Shasta Indians	24	668
Shawnee Indians	24	667
Shinnecock Indians	24	715
Shoshone	22	91
Shoshonean Indians	24	754
Kern River	16	379
Shoshonean stock	15	48
Sia	16	377
Siksika	24	807

Races and Tribes — cont'd	Vol.	Page
Siouan stock	5	409
	15	47
	25	43
Sioux (Siouan stock)	5	409
Six Nations	15	390
	25	49
Skitswish	7	209
	24	187
Skitzoomish	7	209
Sobaipuri	25	158
Stakhin	25	647
Stikine	25	647
Swampy Cree (Algonkin stock)	5	409
Taculli	26	211
Tahâno family	26	249
Takilman family	26	220
Takmint	16	281
Taku	26	220
Talamancans	26	220
Talamansans	26	220
Tamaya	16	377
Tanoan family	26	249
Tarosca	26	266
Tchikun	26	306
Tetons	27	229
Timuquoman family	26	637
Tionontaic	26	643
Tlagluit	29	578
Tlinket	26	656
Tlinkit	26	656
Toltecs	26	677
Tolowa	26	676
Tongas	26	685
Tonica	26	687
Tonika	26	687
Tonkawa	26	687
Tonto	26	630
Towakoni	26	722
Tsia	16	377
Tsimshian (Tsimshian stock)	5	409
	27	118
Tubatulabal	16	379
Tunica	26	687
Tupian stock	27	167
Tuscarora	15	390
	25	49
	27	210
Tutelo	27	211
Tututunne	27	212
Two Kettle Indians	27	229
Uchean	27	250
Umatilla	27	266
Unami	27	269
Uto-Aztecan stock	15	48
Waccamaw	28	203
Wahkiakum	28	213
Wahowpum	28	213
Wahpekute	28	213
Wahpeton	28	213
Waiam	28	213
Waiilatpuan Indians	28	214
Wakashan Indians	28	215
Wakonda	28	218
Walam Olum	28	218
Walla Walla	28	235
Wampanoag	28	252
Wanapum Indians	28	253
Wappinger	28	256
Wappo	2	387
Wasco Indians	28	770
Washo Indians	28	799
Watlala Indians	29	107
Wea	29	123
Weitspekan Indians	29	176
Wichita Indians	29	290
Willopah	29	350
Winatshipum Indians	29	371
Winnebago	29	396
Winnepesaukee	29	397

Races and Tribes — cont'd	Vol.	Page
Wintum	29	407
Wishoskan	29	428
Wushkum	29	578
Wyandot	29	579
Yaki	29	614
Yakonan	29	606
Yamhill	16	281
Yana	29	611
Yaqui	29	614
Yokut	18	296
	29	639
Yuchee	29	673
Yuit	29	673
Yukian	29	673
Yuma family	18	783
Yuman stock	29	676
Zoque family	18	783
Zunian	29	739
Zunyan	29	739

SOUTH AMERICA

Anti	2	24
Araucan stock	22	790
Araucanians	2	134
Araucanian stock	15	49
Arauna	2	137
Arawakan stock	2	138
	15	49
Arawaks	2	138
	15	44
Atoradis	2	138
Aymaras	2	684
Aymores	4	314
Baccahiry	3	58
Bakairi	3	58
Barre	3	276
Betoyan	3	594
	3	595
Boroas	4	282
Botodos	4	314
Cachibo	5	702
Caetés	5	150
Caités	5	150
Calchaqui	5	158
Campa	2	24
Carib	5	608
	9	243
Cariban stock	15	49
Cashibo	5	702
Chango	6	288
Chibchan stock	6	436
	15	48
Chibchas	6	436
Chiquitos	6	565
Cholos	6	587
Conibo	7	519
Coroados	7	717
Creoles	8	179
	17	6
Enimâgan	10	390
Esmeraldan	10	500
Fuegians	15	44
Gauchos	12	338
Givaros	16	148
Goajiros	12	739
Guaranies	13	513
Guarauno	13	514
Huambisa	14	462
Inca	14	733
Iquitos	15	305
Jivaro	16	148
Lacandones	16	626
Lama	29	611
Lamista	29	611
Lhameos	29	611
Llaneros	17	548
Maca	18	4
Macu	18	91
Maiaco	18	421
Mayoruna	18	469

Races and Tribes — cont'd	Vol.	Page
Mestizo	2	202
	18	694
Musicas	6	436
Omaguas	20	676
Onoto	20	693
Otomaco	21	44
Pano Indians	21	247
Passé Indians	21	368
Patagonians	15	49
	21	379
Payagua Indians	21	432
Puelche	22	790
Puruâpulas	23	31
Puru-purus	23	31
Quichua	23	87
Roucouennes	23	719
Roucouyenne	23	719
Shipibo	24	729
Shushwap	24	761
South American stock	15	48
Tapuyan stock	15	49
Tehuelche	15	49
Ticuna	26	610
Tucuna	26	610
Tupian stock	15	49
	27	167
Tupi-guaranis	15	49
Tzonek	15	49
Uaraycu	27	249
Ucayales	7	180
Wapisianas	2	138
Yameo	29	611
Ynca	14	733
Yurucare	29	677
Yurucares	29	677
Zuri	16	254

EUROPE

Abantes	1	7
Albanians	1	325
	28	633
Allobroges	1	423
Angles	1	683
Anglo-Saxon	1	688
Argives	2	222
Argivi	2	222
Atrebates	2	518
Balkan races	5	407
Balkan race problems	28	643
Baltic group	11	227
Barabinski	3	227
Bashkeers	3	306
Bashkirs	3	306
Basques	3	314
Bastarnae	3	321
Bastian	14	256
Belgæ	3	455
Bertillon system	3	581
Biscayans	3	314
Boii	4	164
Branchidæ	4	410
Brutii	4	645
Brythonic	13	174
Bulgarians	5	407
	5	408
	28	632
Bulgaric group	11	227
Cagots	5	145
Cantabri	5	528
Carnutes	5	645
Carnuti	5	645
Caucasian race	6	126
Celtic peoples	6	185
Chazars	6	369
Cherusci	6	420
Chones	17	714
Chudic group	11	227
Crô-magnon race	7	21
	18	190
Cymri	8	365
	13	174

Races and Tribes — cont'd	Vol.	Page
Czecho-slovaks	8	382
	28	630
Czechs	2	625
	8	382
Ethnical composition of Russia	24	2
Ethnology, Swedish	26	117
Etruscans	2	158
	10	556
Euscaldunac	3	314
Fanariots	21	706
Finnish peoples	28	628
Finns	5	407
	5	408
	11	227
Firbolgs	11	230
Fomharaighs	11	230
Fomorians	11	230
Frisians	12	111
Furfooz stock	25	683
Georgians	12	490
Gepidæ	12	492
Goidels	13	174
Goths	13	89
Great Britain, peoples of	13	174
Greeks	13	378
	28	633
Gutsuli	24	67
Helots	14	86
Heruli	14	153
Huns	14	509
Ibernians	12	490
	14	615
Iceni	14	634
Illyrians	14	703
Jugoslavs	2	625
	16	289
	28	632
Jutes	16	268
Kantemir	16	306
Karelians	11	227
	16	309
Khazars	6	369
Kymry	8	365
Latins	17	95
Lemki	24	67
Letts	17	325
	28	629
Lithuanians	17	517
	28	629
Little Russians	24	66
Magyars	2	625
	14	504
	18	132
	28	631
Marcomanni	18	273
Mediterranean race	25	683
Moors	19	435
Mordvins	19	443
Mystery people	3	314
Nemedians	11	230
Normans	20	406
Northmen	20	406
Œnotrians	17	714
Oscans	21	18
Osci	21	18
Ostiaks	21	34
Ostrogoths	21	37
Pelasgians	21	482
Permic group	11	227
Phanariots	21	706
Pictavi	22	71
Pictones	22	71
Pit villages	22	119
Poles	2	625
	22	286
	28	629
Polynesian — European group	2	21
Quirites	23	98

Races and Tribes — cont'd	Vol.	Page
Ramnes	23	661
	23	663
Rumanians	23	766
	28	631
Russian cossacks	24	59
Russniaks	24	66
Ruthenes	24	66
	24	67
	27	258
Ruthenians	2	625
	24	66
	28	630
Samoiedes	24	225
Samoyedes	24	225
Sardinians	24	300
Saxon	24	736
Silures	25	10
Slavs	25	92
Slovaks	25	100
Slovenes	25	100
Slovenians	25	100
Solutrean people	25	682
Spain, peoples of	25	330
Suevi	25	789
Suliots	25	807
Switzerland, peoples of	26	145
Talisman	26	225
Tavastians	11	227
Teutonic tribes	11	6
	12	544
Thessali	26	550
Thracians	26	592
Ukrainians	27	258
Vikings	20	406
Volgaic group	11	227
Volsci	28	175
Walloons	28	242
Wends	25	100
	29	191
Winds	25	100

AFRICA

Abongo	20	544
African negroes	20	47
Africa, peoples of	1	216
Akka	1	295
Ashantee	2	383
Ashanti	2	383
Australian-African group	2	21
Azgar Tawarik	2	689
Baele	3	36
Bakkebakke	3	63
Bakuba	3	64
Bakwiri	3	64
Bantu	3	216
Ba Nyoro	20	526
Barbara	3	227
Bari	3	231
Barotse	3	273
Batwa	3	347
Bechuanas	3	403
Benga	3	510
Beni-Mzàb	3	515
Berbers	3	536
Bisharrin	4	13
Blemmyes	4	76
Blemyes	4	76
Bogos	4	155
Bongo	4	214
	9	263
Bosjesmans	5	73
Bushman	5	73
Caffres	16	276
Chobi	6	581
Cro-Magnons	13	511
	28	109
	25	682
Dahomans	8	396
Danakil	8	446
Dinka	9	126
Dor	9	263

Races and Tribes — cont'd	Vol.	Page
Egyptians	10	6
Falashas	10	725
Fangme Pahouins	11	11
Fans	11	11
Fellahin	11	104
Fellahs	11	104
Fellatahs	11	104
Fingoes	16	276
Fulahs	11	104
Furani	12	198
Furs	12	198
Gallas	12	241
Gonaqua	14	441
Grimaldi	18	191
Gona	14	441
Guanches	13	510
Guanchis	13	510
Guanchos	13	510
Hottentots	14	440
Kaffirs	16	276
Kaffres	16	276
Kafirs	16	276
Kanuris	16	306
Kru	16	546
Krumen	16	546
Mandingoes	18	207
Masai	18	374
Mashonas	23	475
Matabele	23	475
Namas	14	441
Negro	5	407
	5	408
	5	409
	20	46
Niam-Niam, Zandeh	20	524
Nuba	20	481
Nyam-Nyam, Azande	20	524
Nyoro	20	526
Obongo	4	214
	20	544
Oshiba	11	11
Ovambo	21	56
Pondos	16	276
Pygmies	23	39
Sarts	24	308
Semitic nations, primitive home of	24	553
South Africa, peoples of	25	275
Swazi	16	276
	26	111
Tawarek	27	119
Tuaregs	27	119
Tuaricks	27	119
Yoosufzye	29	641
Yusufzai	29	641
Zulus	16	276

ASIA

Aino	1	274
Ainu	1	274
	15	628
Armeans	2	132
	24	554
Asiatic races	2	393
Assyria, peoples of	2	430
Avars	2	671
Babylonians	3	7
	24	553
Bashahr	3	306
Battaks	26	10
Bazigars	3	369
Beni-Israel	3	515
Beni-Khaibir	3	515
Bheels	3	609
Buriats	5	44
Burmese	5	51
Cambodians	5	246
Canaanites	5	288
Charactistics of the Semitic peoples	24	555

Races and Tribes — cont'd	Vol.	Page
Chins	6	561
Dayaks	9	447
Dravidian	9	313
Druses	9	355
Firangi	11	230
Geez	12	356
Gentoo	12	408
Ghurkas, Gurkahs, or Goorkhas	12	636
Giliaks	15	628
Gonds	13	45
Grusinians	12	490
Hamites	13	662
Hebrews	14	58
Hittites	14	299
Iliyats	14	680
India, peoples of	15	10
Indo-Chinese	15	69
Iranian	15	306
Jats	15	753
Jews	16	62
Judah, Tribe of	16	229
Kalkas	16	284
Kakhyens	16	280
Kalangs	16	281
Kalmucks	16	285
Kanarese	16	289
Karens	16	309
Kasikumuks	16	312
Kenizzites	16	354
Khmers	16	392
Khonds	16	394
Kirghiz, Kirghis, or Kirghiz-Kazaks	16	456
Koords	16	558
Koropokguru	15	628
Kukis	6	561
	16	553
Kurds	16	558
Kus	16	394
	16	560
Laotians	16	714
	26	486
Lesghians	17	314
Lolos	17	615
Laos, or Laotians	16	741
Lepchas	17	307
Lushais	17	749
Mahrattas	18	138
Malays	18	162
Maronites	9	355
	18	306
Massagetæ	18	414
Miao-Tse	19	8
Miau-Tsi	19	8
Midianites	19	44
Mingrelians	19	170
Mitannians	19	262
Mongolian race	19	355
Orientals in Canada	5	409
Original Sumerian inhabitants	24	554
Orokkos	15	628
Paharia	21	104
Phrygians	22	22
Punjab	23	21
Rajputs	23	195
Samoans	24	222
Santâls	24	282
Semites	24	547
Semitic cradle-land	24	548
nations	24	552
nations, primitive	24	552
Shem	24	691
Siberia, peoples of	24	770
Sindians	25	31
Suttee	26	103
Syrian inhabitants	26	187
Tamil	26	234
Tamir	26	234
Tatars	26	282

Races and Tribes — cont'd	Vol.	Page
Thai	26	486
Thibet, inhabitants	26	606
Todas	26	666
Tuda	26	666
Tungusen	27	144
Turkomans	27	202
Ugrian	27	253
Ugric group	11	227
Uralo-Altaic family	11	227

OCEANICA

Aborigines of Australia	2	568
Aino	1	274
Ainu	1	274
Ata	2	486
Australian blacks	18	191
Bisayas	28	131
Bugis	4	699
Camarines	5	244
Catalanganes	6	41
Catubanganes	6	124
Coyuvos	8	143
Dadayag	8	390
Dayaks	9	447
Dulangan	9	392
Dyaks	9	447
Filipino	11	208
Guinaan	13	539
Gulangan	9	392
Ibalao	14	704
Ibilao	14	616
Igorot	14	673
Ilongot	14	704
Kanakas	16	289
Llocanes	11	209
Maguindanao	18	132
Mamanua	18	173
Mandaya	18	205
Manguangas	18	213
Manguianes	18	213
Manobas	18	231
Maoris	18	252
Mayoyaos	18	470
Minahossas	19	145
Moros	11	209
	19	471
Negritos	11	209
	20	46
Orang-Kuba	26	10
Pampangos	21	221
Pangasinâns	21	243
Polynesians	22	333
Samales	24	217
Selungs	24	545
Sumatrans	26	10
Tagalogs	26	214
Tagalos	26	214
Tagals	11	209
	26	214
Taghanuas	26	214
Tandolanos	26	240
Tasmanians	18	191
Vicols	11	209
Visayas	11	209
	28	131

Biographies

UNITED STATES

	Vol.	Page
Barrows, David Prescott	3	283
Boas, Franz	4	136
Brigham, William Tufts	4	538
Bright Eyes	4	540
Brinton, Daniel Garrison	4	543
	15	45
Chamberlain, Alexander F.	6	258
Culin, Stewart	8	295
Cushing, Frank	8	333
Dixon, Roland Burrage	9	211
Dorsey, George Amos	9	269

Biographies — cont'd	Vol.	Page
Fewkes, Jesse Walter	11	163
Fletcher, Alice Cunningham	11	347
Folkmar, Daniel	11	422
Furness, William Henry	12	182
Hale, Horatio	13	633
Hewitt, John N. B.	14	162
Hodge, Frederick Webb	14	307
Holmes, William Henry	14	323
Hough, Walter	14	442
James, George Wharton	15	604
Jones, William	16	202
Kroeber, Alfred L.	16	543
Laufer, Berthold	17	101
Lowie, Robert Harry	14	256
	17	704
MacCurdy, George-Grant	18	34
McGee, W. J	18	47
Mallery, Garrick	18	167
Mason, Otis Tufton	18	382
Matthews, Washington	18	444
Mooney, James	19	427
Morgan, Lewis Henry	19	454
Nott, Josiah Clark	20	460
Pickering, Charles	22	66
Pilling, James Constantine	22	87
Powell, John Wesley	15	45
	22	476
Putnam, Frederick Ward	23	33
Riggs, William Henry	23	519
Schoolcraft, Henry Rowe	24	393
Semple, Ellen Churchill	24	556
Smith, Erminnie Adelle Platt	25	115
Starr, Frederick	25	496
Stevenson, Matilda Coxe	25	640
Swanton, John Reed	26	110
Thomas, Cyrus	26	571
Wissler, Clark	29	429
Woodruff, Charles Edward	29	497

OTHER COUNTRIES

	Vol.	Page
Ammon, Otto	1	578
Anuchin, Dimitri Nikolaievich	2	49
Askawa, Kwan-ichi	2	375
Bastian, Adolf	3	321
Berendt, Karl Hermann	3	539
Bertillon, Alphonse	3	581
Birkner, Ferdinand	4	4
Boyle, David	4	375
Frazer, Sir James George	12	20
Guiffrida-Ruggeri, Vincenzo	12	668
Haddon, Alfred Cort	13	609
Hedlicka, Ales	14	462
Hovelacque, Alexandre Abel	14	451
Jacobsen, John Adrian	15	592
Le Bon, Gustave	17	161
Militchevitch, Djakov Milam	19	98
Morice, Adrian Gabriel	19	458
Nordenskiöld, Nils Erland Herbert, Baron	20	398
Prichard, James Cowles	22	569
Rhys, Sir John	23	480
Spencer, Sir Walter Baldwin	25	394
Stirling, Edward Charles	25	653
Tylor, Sir Edward Burnett	27	234
Westermarck, Edward Alexander	29	221

See also **Customs and Social Life; History; Language and Literature; Mythology; Religion; Sociology.**

FINE ARTS

General	Vol.	Page
Aboriginal art	1	45
Académie des Beaux-Arts, L'	15	171
Academy of Arts and Letters	1	63
Academy of Fine Arts, French	1	64
Russian	1	64
Acanthus in art	1	66
Accademia Di San Luca	24	152
Accessory arts	11	218
Adam decoration	15	221
Alban necropolis	15	515
Alexander column	1	871
Allied arts	11	218
American art	1	496
	1	558
Architecture. See Architecture.		
Antiques	2	38
Art	2	335
	7	23
drawing	2	336
ecclesiastical	9	527
enamels	2	340
history of	14	222
galleries	2	343
in ancient Italy	15	514
influence of World War on	17	509
in the Eastern Church	19	338
in the Western Church	19	339
Metropolitan Museum of	2	345
and science differentiated	1	497
Students' League of New York	2	346
of Africa	1	214
	1	216
of Asia	2	398
of Assyria	2	430
of Australia	2	570
of Byzantium	5	105
	9	529
of China	6	549
of Egypt	10	10
	10	12
	10	14
of France	11	660
	11	674
	11	682
	11	688
of Germany	12	558
	12	561
	12	564
	12	569
of Great Britain	10	360
of Greece	13	381
	13	382
	21	2
of Holland	20	94
of India	15	17
	15	23
of Indians, American	15	52

General — cont'd	Vol.	Page
of Ireland	15	325
	15	329
of Italy	9	330
	11	364
	15	514
	15	520
	15	531
	15	536
of Japan	15	691
	15	699
of Lombardy	9	530
of Mexico	18	769
of Mohammedan countries	19	295
of Norway	20	444
of Persia	21	623
of Portugal	22	415
of Russia	24	24
	24	27
	24	28
of the Saracens	19	296
of Spain	18	771
	25	343
of United States	1	496
	1	558
Ashikaga Shogunate, era of	15	697
Assyria	2	430
Balata	3	71
Baroque decoration	16	220
Book of the Dead	4	230
Bookplate	4	243
Books, illustration of	14	700
Brasses	4	419
Breadth	4	452
British Museum	4	563
Broadsword belts	15	515
Bronze and brass work	4	583
Bronzes	4	586
	15	514
Bucrane	4	671
Buffalo Historical Society	4	694
Byzantine art	5	105
	9	529
Byzantine ornament	21	3
Camouflage	5	268
Candelabrum	5	494
Carlovingian illumination	18	245
Carrara marble	5	663
Cast	5	714
Catacombs	6	30
	9	528
Roman	6	31
Ceramics	6	219
See also Pottery and Porcelains.		
Champlevé enamels	2	341
Chaplet	11	695
Charcoal	6	303
	14	24
drawing	2	336
Christ in art	6	597
Chryselephantine	6	647
Chromatic arts	8	568
Cinquecento	6	688
Coloring	7	327

General — cont'd	Vol.	Page
Colors in art and symbolism	7	328
Composition in art	11	219
Constantine, arch of	7	556
Corcoran Art Gallery	7	680
Craftsmanship in precious metals	4	583
	25	16
Crucifixion	8	253
Dai-dairi style	15	695
Dead, Book of	4	230
	14	700
Decoration, interior	15	217
Decorative art	8	567
	11	218
Decorative arts, minor	8	569
Design, schools of	9	9
Detroit Museum of Art	9	32
Devil in art and symbolism	9	38
Dilettante	9	119
Diorama	9	137
Dog in art and symbolism	9	228
Dolphin in art	9	239
Dove in art	9	284
Dragon in art	9	294
Dulwich Gallery	9	394
Dying Gaul	9	454
Eagle in art and symbolism	9	474
Earliest known illustrated work	14	700
Ecclesiastical art	9	527
École Des Beaux-Arts	9	554
Egyptian arts	10	14
Eighteenth Century art	11	689
Elizabethan decoration	15	221
Émaux en Basse-Taille	2	342
Émaux en Résille	2	342
Émaux peints	2	342
Empire decoration	15	221
Enamels of the 17th Century	2	342
Enamels of the 18th Century	2	342
Evangelists, symbols of the four	10	590
Expression in art	11	220
Filigree work	11	208
	15	516
Fine arts	2	335
	11	218
appeal of	11	219
expression	11	220
history	11	220
principle and technique	11	219
style	11	220
Florentine art	11	364
Florentine mosaic	11	365
French art	11	688
Galleries of art, Parisian	21	307
Georgian decoration	15	221
Giobertine tincture	12	660
Gothic art	13	79
Gothic illumination	18	245
Gothic Period	9	533

General — cont'd	Vol.	Page
Græco-Roman ornament.	21	3
Grand Prix De Rome...	13	125
Hair pencil.....	13	625
Half-tone illustrations..	14	381
Halo	13	650
Heart in art and symbolism	14	40
Hellenic art.....	21	2
Hudson River School, The	1	497
Idealism	14	663
Ideal naturalism.....	1	498
India, art and architecture of	15	17
Indians, American, arts of	15	52
Industrial arts.....	11	218
Institutes of fine art, Italian	15	496
Interior decoration.....	15	217
in the United States	15	222
Irish arts	15	329
Italian art, historical synopsis of.....	15	520
in the 19th century.	15	531
in the 20th century.	15	531
Italo-Byzantine art.....	9	530
Jacobean decoration....	15	221
Japanese fine art.....	15	691
	15	699
Jardin Mabille.....	15	748
Kells, Book of.....	16	343
Laurel in art and symbolism	17	107
Light and shade.....	17	423
Lion in art.....	17	469
Lombard art	9	530
Lotus	17	670
Louis Quatorze decoration	15	221
Louis Quinze decoration.	15	221
Louis Seize decoration..	15	221
Louvre, The.....	17	693
	21	307
Major fine arts.....	11	218
Manuscripts	9	535
illuminated	9	532
	14	700
	18	243
Byzantine	18	244
Celtic	18	245
Egyptian	18	244
Italian	18	245
Syrian	18	244
Mastic gum.....	18	419
Mastiche	18	419
Miniature, art of.....	15	519
	19	171
Mohammedan art	19	295
Molding and carving...	15	517
Monastic art.....	19	338
Monogram	19	364
Mosaics	11	689
	19	493
and painting.....	5	106
Municipal art societies..	19	573
Munich National Museum	8	570
	19	566
Musée Nationale des Arts Décoratifs	8	570
Music. See **Music.**		
National Academy of Design	1	497
	19	724
Nineteenth century art..	11	690
	20	357
Numismatic art.....	15	517
	20	494
Ornament	21	2
Ornamental designing..	15	517

General — cont'd	Vol.	Page
Painting	21	111
See also **Painting.**		
Paintings and sculptures, ecclesiastical	9	535
Patina	21	399
Pattern	21	407
Pecorella	27	724
Pergamenum abortivum.	27	724
Persian art.....	21	628
Personification	21	632
Phœnician art.....	21	788
Pictorial representation.	2	336
	8	568
Pinakothek	22	92
Piqué work.....	22	113
Pitti Palace of Florence.	8	570
	22	123
Plastic arts.....	8	568
Polychromy art in ancient Italy.....	15	515
Polychromy	22	327
Porcelain. See **Pottery and Porcelains.**		
Portuguese art.....	22	415
Pre-Raphaelitism	1	498
Renaissance	11	689
	23	367
decoration	15	219
in Italy.....	15	444
	23	367
outside of Italy.....	23	369
Period	9	536
sources of.....	11	688
Rococo	21	3
	23	618
Romanesque	9	530
architecture	23	651
Rood's color circle.....	7	310
Rosa Mystica	23	693
Rose in art and symbolism	23	693
Royal Academy of Arts, The	23	734
Royal Scottish Society of Arts.....	22	1
Saint Ambrosius, golden altar of	15	520
Saint Luke, Academy of	24	152
Salon, The Paris.....	24	196
Saracenic art.....	19	296
Scarabs	24	354
Ship in art.....	24	722
Silver antiques.....	25	16
Silverware	25	16
Sistine Chapel.....	15	528
	27	697
Sixteenth century art...	25	54
South Kensington, national art schools of..	25	304
Spanish art.....	18	771
	25	343
Stained glass windows.	9	534
Style in art.....	11	220
Symbolism-Byzantine art	26	161
Symmetry in art.....	26	167
Technic of fine arts....	11	219
Triptych	27	76
True impressionism.....	1	498
Vellum	27	723
Veneering	14	24
	27	726
Verd antique.....	28	12
Vienna, art monuments of	28	80
Vignette	28	85
Vine in art and symbolism	28	100
Walters collection.....	28	249
Wood carving	15	517
	29	478
Wood engraving	29	480
Zwinger	29	742

Biographies	Vol.	Page
UNITED STATES		
Avery, Samuel Putnam..	2	675
Caffin, Charles Henry...	5	143
Carrington, Fitzroy.....	5	672
Clarke, Sir Caspar Purdon	7	46
Ellicott, Andrew.....	6	719
	10	253
Ellicott, Joseph.....	6	719
Freer, Charles Lang....	12	52
French, William Merchant Richardson.....	12	61
Goodyear, William Henry	13	59
Hitchcock, James Ripley Wellman	14	298
Ives, Frederick E.....	7	312
	7	314
	15	563
	22	6
La Farge, John.....	12	712
	15	222
	16	571
Loring, Charles Greely..	17	663
Mather, Frank Jewett, Jr.	18	435
Perkins, Charles Callahan	21	599
Thunder Cloud.....	26	600
Tonks, Oliver Samuel...	26	687
Volcks, Adalbert J.....	28	172
Walters, William Thompson	28	249
Willard, Ashton Rollins.	29	325
OTHER COUNTRIES		
Alberti, Leone Battista degli	1	337
	15	446
Arundel, Thomas Howard	2	370
Baumeister, Reinhard...	6	719
Beaumont, George Howland	3	392
Beltrami, Giovanni.....	3	495
Benczur, Gyula (Julius)	3	501
Blaas, Eugene von.....	4	29
Blaas, Julius von.....	4	29
Blaas, Karl.....	4	30
Bode, Wilhelm von.....	4	143
Canon, Johann.....	5	513
Cavalcaselle, Giovanni Battista	6	135
Cean-Bermudez, Juan Augustin	6	157
Cellini, Benvenuto.....	6	173
	13	36
Cicognara, Leopoldo, Count Da.....	6	671
Danhauser, Joseph.....	8	451
Douglas, Robert Langton	9	279
Fischbach, Friedrich....	11	263
Gorodayu, Goshonzui...	15	741
Haussmann, Georges Eugène	6	719
Jameson, Anna B. M....	15	608
Jamitzer, Wenzel.....	15	610
Jamnitzer, Wenzel.....	15	610
Kugler, Franz Theodor.	16	552
Ladegast, Friedrich.....	16	642
Miller, Ferdinand von..	19	118
Muther, Richard.....	19	656
Palissy, Bernhard.....	6	220
Reber, Franz von.....	23	265
Sitte, Camille.....	6	719
Stübben, Joseph.....	6	719
Towneley, Charles.....	26	727
Tussaud, Marie Gresholtz	27	211
Wallace, Richard.....	28	237

Biographies — cont'd	Vol.	Page
Williamson, George Charles	29	347
Zahn, Johann Karl Wilhelm	29	682

Drama

SUBJECTS

	Vol.	Page
Abbey Theatre (Ireland)	15	337
Act	1	105
Actors	13	418
famous, names of	26	500
Church Alliance of America	1	109
Amateur theatricals	1	465
American comedy, first	26	496
Ancient theatre	26	502
Arrow-maker, The	2	329
As the Leaves	2	373
As a Man Thinks	2	378
Astor place riot	2	450
As You Like It	2	374
Atellanæ Fabulæ	2	490
Aulularia	2	552
Baltimore Theatre	26	496
Bluebird, The	4	129
Ballet	3	99
	8	448
Booth's Theatre	4	252
Cachuca	5	129
Children's Players	6	497
Children's theatres	6	496
Classicism in the French Theatre	11	670
College dramatics	7	254
Comedy	7	354
Comedy, classic	9	306
French, classical	11	678
plays, French	11	670
theatre, French	11	668
Coryphæus	8	31
Costumes, Greek	13	419
Dancing	8	447
	11	218
pyrrhic	23	46
quadrille	23	54
skirt	8	448
sword	26	154
terms	8	449
Deus Ex Machina	9	33
Devil Is An Ass, The	9	39
Don Juan	9	271
Drama	9	303
Athens	9	308
censorship of	9	310
classical	9	303
America	9	309
England	9	307
France	9	306
Germany	9	308
Italy	9	305
Japanese	15	689
Spanish	9	306
	25	355
League of America	9	310
Middle Ages	9	305
modern, schools of	24	397
Portuguese	22	417
Renaissance	9	305
Rome	9	304
Scandinavia	9	309
Society, The	9	311
Twentieth Century	9	309
Dramatic art, French, realistic period of	11	678
Renaissance Age of	11	669
Romantic period of	11	675
Dramatic arts, American Academy of	9	311
Dramatic festival	21	101
Dramatic pageant	21	101

Drama — cont'd	Vol.	Page
Drury Lane Theatre	9	355
Eastward Ho	9	516
Educational Dramatic League	6	497
Elf King's Oath, The	20	540
Elisabethan Theatre	26	493
Enfants Sans Souci	11	668
Epic pageant	21	101
Ethical Culture School of New York	6	498
Extravaganza	10	675
Fair Sidea, The	10	716
Farces, French	11	668
Festivals	11	153
American Indian	11	153
Christian	11	156
Greek	11	154
Jewish	11	155
Roman	11	154
miscellaneous	11	155
Folk theatres	23	778
Free theatre, French	11	679
French dramatic art	11	666
French theatre, evolutions of	11	666
Garden type theatres	26	494
Globe Theatre	12	719
Greek theatre, The	13	418
Harvard Dramatic Club	7	256
Hernani	14	133
Importance of Being Earnest, The	14	725
Irish Literary Theatre	15	337
Irish National Dramatic Company	15	337
Japanese drama	15	689
Jewish stage	16	82
Jungfrau von Orleans, Die	16	248
Little Country Theatre	23	778
Living Pictures	26	199
Lyrical drama	21	101
Marta of the Lowlands	18	331
Mask	18	378
Mask and Wig Club	7	257
Masques	18	393
Masque of St. Louis	18	393
Merope	18	678
Middle age of French dramatic art	11	677
Miles gloriosus	19	57
Mime	19	143
Miracle plays	19	217
Mistères Les	11	667
Molière's Theatre	11	672
Moralities	19	438
Morality play	11	668
Movable scenery	26	493
Moving pictures	19	535
Moving picture theatre, development of	26	500
Naturalistic drama	24	398
Naturalistic exponents	24	398
New York city theatres	26	500
Nibelungen Ring, The	20	299
Nineteenth century managers	26	498
Oberon	20	540
Odeum	20	584
Oireachtas	15	337
Open-air theatres	26	497
Pageant drama	21	101
Pageantry	21	99
Pageants, English	21	98
in the United States	21	98
Panoramic pageant	21	101
Pantomime	21	250
Philalethean Society	7	257
Photoplay	22	15
Pierrot	22	77
Popular comedy, French	11	678
Portuguese drama	22	417

Drama — cont'd	Vol.	Page
Realistic drama	24	397
	24	398
Religious theatre, French	11	667
Romantic drama	24	397
Rural theatres	23	778
Scala, La	24	346
Scaramouch	24	354
School for Scandal	26	496
Schools of drama, modern	24	397
Secular theatre, French	11	668
Sganarelle	24	635
Shadow pantomime	24	638
Shadow play	24	638
Skene	13	418
Sociétés Joyeuses, Les	11	668
Sotie plays	11	668
Soties, The	11	668
Sots	11	668
Stage lights	26	503
Stage positions	26	503
Stage scenery	26	503
Stage terms	26	502
Star system	26	498
Stock system	26	498
Tableaux vivants	26	199
Terra Baixa	18	331
Theatre	26	491
Theatre in America, first	26	493
Theatre, American	26	494
architecture of	26	491
Greek	26	492
Middle Ages	26	492
Roman	26	492
development of	26	499
Théâtre illustré	11	672
Theatre libre	26	504
Theatre, stage mechanics of	26	502
Theatrical companies	26	499
Theatrical season, first	26	494
Theatricals, amateur	1	465
Thymele	13	418
Tragedy	26	765
classical, French	11	670
plays, French	11	669
Triangle Club	7	256
Ulster Literary Theatre	15	339
University Players	7	258
Vaudeville	11	678
	27	699
Virginia comedians	26	494
	26	495
	26	497
Walküre	20	300

Biographies

UNITED STATES

	Vol.	Page
Adams, Maud Kiskadden	1	125
Aherne, James	14	134
Aldridge, Ira Frederick	1	356
Allan, Maud	1	409
Allen, Viola	1	416
Anderson, Mary Antoinette	1	660
	26	499
Anglin, Margaret Mary	1	684
Anspacher, Mrs. L. K.	16	401
Armstrong, Paul	2	286
Arthur, Julia	2	354
Barrett, George Hooker	3	277
Barrett, Lawrence	3	278
Barrett, Wilson	3	278
Barrymore, Ethel	3	287
Barrymore, Maurice	3	287
Bates, Blanche	3	329
Belasco, David	3	452
Bierbower, Elsie Janis	15	613

Biographies — cont'd	Vol.	Page
Blake, William Rufus..	4	57
Bingham, Amelia.....	3	715
Booth, Edwin Thomas..	4	251
	26	499
Booth, John Wilkes....	4	252
Bowers, Elizabeth Crocker	4	363
Burgess, Neil.....	5	39
Caldwell, James H.....	26	498
Carter, Louise Leslie...	5	679
Cayvan, Georgia.....	6	156
Chaplin, Charles.....	6	296
	26	499
Christy, Charles.....	6	631
Claxton, Kate.....	7	65
Cohan, George Michael.	7	215
Coghlan, Charles Francis	7.	214
Coghlan, Rose.....	7	214
Collier, William.....	7	266
Conlin, Bernard.....	11	362
Conquest, Ida (Mrs. Riccardo Bertelli)....	7	534
Crabtree, Charlotte.....	8	145
Crabtree, Lotta.....	8	145
Crane, William Henry..	8	156
Crosman, Henrietta.....	8	229
Cushman, Charlotte Saunders	8	334
	26	499
Daly, Arnold.....	8	424
Daly, John Augustin...	8	424
Davenport, Edward Loomis	8	496
Davenport, Fanny Lily Gypsy	8	497
Davidge, William Pleater	8	508
De Wolfe, Elsie.....	9	50
Dodson, John E.....	9	222
Douglass, David.....	26	495
Drake, Samuel.....	9	302
Drew, John, Jr.....	9	332
Drew, John, Sr.....	9	332
Duncan, Isadora.....	9	400
Edeson, Robert.....	9	581
Eytinge, Rose.....	10	686
Farnum, Dustin.....	11	44
Farnum, William.....	11	44
Faversham, William.....	11	69
Fennell, James.....	11	117
Ferguson, Elsie (Louise)	11	123
Fisher, Clara.....	11	280
Fiske, Harrison Grey...	11	296
Fiske, Minnie Maddern.	11	296
Fiske, Stephen.....	11	297
Florence, William Jermyn	11	362
Ford, John Thomson...	11	466
Forrest, Edwin.....	11	498
	26	499
Fox, George L.....	11	564
Frohman, Charles.....	12	119
Frohman, Daniel.....	12	119
Fyles, Franklin.....	12	212
George, Grace.....	12	478
Gilbert, Anne Hartley..	12	648
Gillette, William.....	12	655
Goodwin, Nat(haniel) C(arl)	13	59
Hackett, James Henry..	13	607
Hackett, James Keteltas.	13	607
Hamblin, Thomas Sowerby	13	652
Haworth, Joseph.....	14	9
Herne, J. A.....	14	134
Heron, Matilda.....	14	141
Holland, Edmund Milton	14	317
Hopper, (William) De Wolf	14	374
Illington, Margaret.....	14	681
Irving, Isabel.....	15	401
Irwin, May.....	15	403
James, Louis.....	15	606
Janauschek, Fanny.....	15	611
Janis, Elsie.....	15	613
Jefferson, Joseph.....	16	1
	26	499
Keene, Laura.....	16	334
Keith, Benjamin Franklin	16	336
Kelcey, Herbert Lamb..	16	337
Kidder, Kathryn.....	16	401
Klaw, Marc.....	16	470
Lewis, Ida.....	2	354
Lewis, James.....	17	334
Logan, Olive.....	17	596
MacCullough, John Edward	18	33
Mackaye, Steele.....	26	502
Macready, William C...	18	90
	26	499
Mansfield, Richard.....	18	234
Mantell, Robert Bruce..	18	237
Marlowe, Julia.....	18	304
Mayo, Frank.....	18	468
Menken, Adah Isaacs...	18	632
Miller, Henry (John)...	19	119
Mitchell, Maggie.....	19	267
Mitchell, Margaret Julia.	19	267
Morris, Clara.....	19	474
Moss, Mary.....	16	334
Murdock, James Edward	19	604
Nicholson, Louisa Margaret	20	320
Owens, John Edward...	21	65
Parkes, Elizabeth Robin.	21	331
Potter, Cora Urquhart..	22	451
Potter, Mrs. James Brown	22	451
Potter, John S.....	26	498
Rankin, Arthur McKee.	23	212
Raymond, John T.....	23	240
Rehan, Ada.....	23	326
Rice, Thomas D.....	23	486
Ritchie, Anna Cora Ogden (Mowatt).....	23	537
Robson, Eleanor Elsie..	23	586
Romance, Franzieska Magdalena	15	611
Rowson, Susanna Haswell	23	733
Ryan, Dennis.....	26	496
Ryan, Mrs. Dennis.....	26	496
Savage, Henry Wilson..	24	321
Skinner, Otis.....	25	76
Sothern, Edward H....	25	268
Sothern, Edwin Askew..	25	268
Thompson, Denman.....	26	577
Vandenhoff, George.....	27	680
Wall, Thomas Llewellyn Lechmere	26	496
Wallack, James William.	28	239
Wallack, John Lester..	28	239
Warde, Frederick.....	28	701
Warfield, David.....	28	703
Wilder, Marshall Pinckney	29	312
Wilson, Francis.....	29	357
Winter, William.....	29	402
GREAT BRITAIN		
Aston, Tony.....	26	494
Bancroft, Squire.....	3	135
Bancroft, Marie Effie Wilton	3	135
Barry, Elizabeth.....	3	285
Barry, Spranger.....	3	286
Bellew, (Harold) Kyrle.	3	483
Betterton, Thomas.....	3	595
Billington, Elizabeth....	3	707
Booth, Barton.....	4	251
Booth, Junius Brutus..	4	252
Boucicault, Dion.....	4	322
Boucicault, Mrs. Dion..	4	322
Bourchier, Arthur.....	4	348
Brodribb, John Henry..	15	401
Brodribb, Sydney.....	15	402
Byron, Henry James....	5	101
Campbell, Beatrice Stella Tanner	5	277
Campbell, Mrs. Patrick.	5	277
Carton, Richard Claude.	5	685
Castle, Vernon.....	6	7
Chevalier, Albert.....	6	430
Cibber, Colley.....	6	666
Cibber, Susannah Maria.	6	667
Cibber, Theophilus....	6	667
Collins, Arthur.....	7	268
Compton, Edward.....	7	452
Cooke, George Frederick.	7	623
Craig, Edward Gordon..	8	149
Dibdin, Charles.....	9	77
Esmond, Henry V.....	10	500
Falconer, Edmund	10	726
Farren, Elizabeth.....	11	48
Farren, William.....	11	49
Faucit, Helen.....	11	62
Fay, Frank J.....	15	337
Fay, William G.....	15	337
Forbes - Robertson, Johnston	11	461
Garrick, David.....	12	298
Greet, Ben.....	13	442
Grossmith, George.....	13	489
Hare, John.....	13	706
Hawtrey Charles Henry.	14	12
Inchbald, Elizabeth Simpson	14	740
Irving, Henry.....	15	401
	26	502
Irving, Henry Brodribb.	15	401
Irving, Lawrence.....	15	402
Jordon, Dorothea.....	16	208
Kean, Charles John....	16	325
Kean, Edmund.....	16	325
Keeley, Mary Anne Goward	16	333
Keeley, Robert.....	16	333
Kemble, Charles.....	16	347
Kemble, Frances Anne..	16	347
Kemble, John Philip....	16	348
Kemble, Marie Thérèse de Camp.....	16	348
Kemble, Roger.....	16	348
Kendal, Margaret Brunton Robertson.....	16	351
Kendal, William Hunter.	16	351
Langtry, Lily.....	16	722
Macready, William Charles	18	90
Massinger, Philip.....	18	416
Mathews, Charles.....	18	437
Mathews, Charles James.	18	437
Miller, Joseph.....	19	120
Neilson, Lilian Adelaide	20	62
Neville, Henry.....	20	110
O'Keeffe, John.....	20	634
Oldfield, Anne.....	20	657
Phelps, Samuel.....	21	719
Power, William Grattan Tyrone	22	477
Quin, James.....	23	91
Rowe, George Fawcett..	23	729
Siddons, Sarah Kemble.	24	785
Southerne, Thomas.....	25	314
Terry, Ellen Alice.....	26	449
Toole, John Lawrence..	26	690
Tree, Herbert Beerbohm	27	34

Biographies — cont'd	Vol.	Page
Vestris, Lucia Elizabeth Bartolozzi	28	45
Vokes, (Theodosia) Rosina	28	169
Walker, John	28	228
Whitlock, Elizabeth Kemble	29	280
Willard, Edward S.	29	325
Woffington, Margaret	29	435
Wyndham, Charles	29	582
Young, Charles Mayne	29	649
FRANCE		
Bernhardt, Rosine	3	573
Bernhardt, Sarah	3	573
	26	499
Baron, Michel	3	272
Bodel, Jean	11	667
Boyron, Michel	3	272
Coquelin, Benoit Constant	7	675
Coquelin, Ernest Alexandre Honoré	7	675
Coquelin, Jean	7	675
Corneille, Pierre	7	707
Corneille, Thomas	7	708
Dancourt, Florent Carton	8	449
Delaunay, Louis Arsène	8	608
Delsarte, François Alexandre Nicolas Chérie	8	628
Després, Suzanne Isabelle	9	15
Destouches, Philippe Néricault	9	16
Duval, Alexandre	9	443
Febvre, Alexandre Frédéric	11	77
Fechter, Charles Albert	11	77
Félix, Elisha Rachel	23	111
Guitry, Lucien Germain	13	541
Halle, Adam de la	11	668
Judic, Anna Damiens	16	235
Judith, Julie Bernat	16	236
Lecouvreur, Adrienne	17	212
Mars, Anne François Hippolyte Boutet Monvel	18	319
Mirbeau, Octave Henri Morie	19	221
	22	221
Mounet, (Jean) Paul	19	524
Mounet-Sully, Jean	19	524
Porel, Gabrielle (Réju)	23	336
Regnard, Jean François	23	324
Réjane, Madame	23	336
Rostand, Edmond	23	712
Talma, Francois Joseph	26	230
GERMANY		
Barnay, Ludwig	3	265
Bauer, Caroline	3	348
Birch-Pfeiffer, Charlotte	3	725
Claar, Emil	7	28
Devrient, Gustav Emil	9	43
Devrient, Ludwig	9	43
Devrient, Otto	9	43
Devrient, Philipp Eduard	9	44
Haase, Friedrich	13	601
Niemann, Albert	20	334
Seebach, Marie	24	527
Wagner, Richard	26	502
	28	209
Ziegler, Frederich Wilhelm	29	707
OTHER COUNTRIES		
Bibikov, Vasili Ilich	3	612
Boguslawski, Adalbert	4	156
Byström, Johan Niklas	5	102

Biographies — cont'd	Vol.	Page
Calderón De La Barca, Pedro	5	187
	25	355
Castelli, Ignaz Franz	6	3
Chiari, Pietro	6	436
Chmelnizky, Nikaloi Ivanovich	6	580
Cueva, Juan de la	8	293
Dampier, Alfred	8	432
Duse, Eleanora	9	427
Echegaray, José	9	541
Eissler, Fannie	10	266
Genée, Adeline	12	370
Kadelburg, Gustav	16	275
Kainz, Joseph	16	278
Krones, Therese	16	544
Lennep, Jacob van	17	286
Macklin, Charles	18	74
Modjeska, Helena	19	288
Nilsson, Christine	20	349
Ristori, Adelaide	23	537
Roscius	23	691
Rueda, Lope de	23	754
	25	355
Salvini, Tommaso	24	216
	26	499
Taglioni, Maria	26	214
Vega, Lope de	25	355
	27	718

Drawing

SUBJECTS

	Vol.	Page
All-over patterns	2	339
Arrangement, systems of	2	329
Art drawing	2	336
Book covers	2	340
Bookplates	2	339
	4	243
Borders	2	339
Caricature	5	611
Caricaturists	5	611
Cartoon	5	685
Cartridge paper	5	686
Charcoal drawing	2	338
Chippendale style	14	701
Conventionalization	2	338
Copying	7	669
Cosmorama	8	87
Crayon	8	168
Design	9	9
abstract forms in	2	338
constructive	2	338
decorative	2	338
lettering in	2	339
machine	9	318
	9	319
mechanical	9	314
nature forms in	2	338
schools of	9	9
Drawing board	9	319
Drawing, mechanical	9	314
Electrotint	10	218
Foreshortening	11	468
India ink	15	24
Ink drawing	2	338
Light and shade	2	337
	17	423
Lead-pencil drawing	2	337
Monograms	2	339
	19	364
Objects, elevation of	21	635
plan of	21	635
Oblique projection	9	317
Outline, rendering in	2	337
Pantograph	22	16
Pastel	8	168
	21	373
Perspective, aërial	21	632
angular	21	637
divisions of	21	635
drawing to scale	21	635

Drawing — cont'd	Vol.	Page
free-hand	2	336
fundamental rules of	21	633
isometric	15	420
linear	21	632
one-point	21	635
parallel	21	635
practice of	21	635
problem of	21	633
theory of	21	632
Photo-lithography	22	7
Pictorial composition	2	337
Pictorial representation	2	336
Plane	22	151
central	21	633
ground	21	633
horizontal	21	633
picture	21	633
Poster art	22	436
Posters	2	340
Projection, axonometric	9	317
oblique	9	317
Protractor	22	695
Restoration	23	420
Silhouette	24	811
Tracing paper	26	739
Triangle	27	52
T-square	26	195
Working drawings	9	315
	9	316

Biographies

UNITED STATES

	Vol.	Page
Abbey, Edwin A.	14	702
Beard, Thomas Francis	3	380
Christy, Howard Chandler	6	631
Crane, Frank	8	155
Darley, F. O.	8	478
	14	792
Edwards, George Wharton	9	707
Fisher, Harrison	11	280
Frost, Arthur B.	12	124
	14	702
Gibson, Charles Dana	12	644
Kemble, Edward Windsor	16	347
Keppler, John	16	375
Mayer, Henry	18	465
McCutcheon, John Tinney	18	34
Morgan, Matthew Somerville	19	454
Nast, Thomas	5	612
	19	719
Newell, Peter	20	266
Opper, Frederick Burr	20	716
Pyle, Howard	23	38
Reuterdahl, Henry	23	440
Riordan, Roger	23	534
Schultze, Carl Emil	24	405
Smith, Jessie Wilcox	25	121
Stone, Walter King	25	679
Thulstrup, Thure de	26	599
Zimmerman, Eugene	29	709
GREAT BRITAIN		
Beardsley, Aubrey Vincent	3	381
	14	702
Beerbohm, Max	3	429
Browne, Hablot Knight	4	614
Crane, Walter	14	702
Cruikshank, George	5	612
	8	254
Du Maurier, George Louis Palmella Busson	9	396
Gillray, James	5	612
Greenaway, Kate	13	426
	14	702

Biographies — cont'd	Vol.	Page
Hogarth, William	5	612
	14	311
Keene, Charles Samuel	16	334
Leech, John	5	612
	17	227
May, Phil	18	460
Pellegrini, Carlo	21	486
Potter, Beatrix	14	702
Sambourne, Edward Linley	24	220
Scharf, Sir George	24	363
Tenniel, John	5	612
	14	702
	26	482
Thackeray, William Makepeace	14	702
	26	482
Thomson, Hugh	14	702
OTHER COUNTRIES		
Caran D'Ache, Emmanuel	5	583
Cham	6	257
Dalsgaard, Christen	8	422
Doré, Paul Gustave	9	264
	14	702
Dulac, Edmund	14	702
Forain, Jean Louis	11	459
Gavarni	12	344
Goya y Lucientes, Francisco José de	13	99
Noé, Amédée de	6	257
Oberländer, Adolf	20	538
Poiré, Emmanuel	5	586
	22	282
Sulpice Guillaume Chevallier	12	344

Engraving and Etching

SUBJECTS	Vol.	Page
Aquatinta	2	107
Aquatints	10	389
Babylonia, Assyria, engraving of	2	436
Bookplate	4	243
	22	786
Braver	5	44
Burin	5	44
Cameos	5	259
Chemitype	6	408
Chromo-lithography	6	633
Cradle	8	148
Drevet	9	331
Dry point	9	362
Enchasing	10	315
Engraving	10	387
	24	27
line	10	388
steel	10	388
stipple	10	388
wood	10	388
Etching	10	387
	10	528
correcting processes	10	529
great masters of	10	529
in England	10	529
in France	10	530
in Germany	10	530
in Holland	10	530
in Spain	10	531
in United States	10	531
method of biting in	10	528
method of working outline	10	528
method of printing	10	529
mordants used in	10	528
processes of	10	528
technique of	10	528
Graphotype	13	152
Lettered proof	22	657
Line engraving	10	388

Engraving and Etching — cont'd	Vol.	Page
Lithography, art of	15	282
	17	514
Metal engraving	24	27
Mezzotints	10	389
	19	7
Niello work	20	334
Photo-glyptography	22	7
Photogravure	22	7
Proof in art	22	657
Remarque proofs	22	657
Sgraffito decoration	24	635
Steel engraving	10	388
Stipple engraving	10	388
Turner prints	10	389
Vignettes	8	104
	28	85
Wax Proof	22	657
Wood engraving	10	388
	29	480
Xylography	29	480

Biographies

UNITED STATES	Vol.	Page
Cassatt, Mary	5	708
Cheney, Seth Wells	6	411
Church, Frederick	6	652
Cole, Timothy	7	242
Comstock, Anna	7	454
Drake, Alexander Wilson	9	300
Dunlap, William	9	405
Farrer, Henry	11	49
Gifford, Sanford R	12	646
Hyde, Helen	14	537
Jones, Alfred	16	195
Juengling, Frederick	16	238
Linton, William James	17	467
Longacre, James Barton	17	640
Lossing, Benson John	17	667
Maverick, Peter	18	453
Mielatry, Charles Frederick William	19	45
Moran, Peter	19	438
Pennell, Joseph	21	518
Prang, Louis	22	510
Ritchie, Alexander Hay	23	537
Sartain, Emily	24	307
Sartain, John	24	307
Smillie, James D	25	111
Whistler, James Abbott McNeill	29	261
Wolf, Henry	29	437
ENGLAND		
Bewick, Thomas	3	603
	14	701
Blake, William	4	56
	14	701
Boydell, John	4	373
Brangwyn, Frank	4	414
Burnett, John	5	56
Cousins, Samuel	8	127
Cruikshank, George	8	254
	14	701
Doo, George Thomas	9	260
Elstracke, Reginald	10	267
Elstracke, Ronald	10	267
Faithorne, William	10	724
Furness, Harry	12	182
Goodall, Edward	13	57
Green, Valentine	13	423
Haden, Francis Seymour	13	609
Hogarth, William	14	311
Miller, William	19	122
Pelham, Peter	21	483
Ryland, William Wynne	24	73
Strange, Robert	25	709
Tassie, James	26	280

Biographies — cont'd	Vol.	Page
Thomas, George Housman	26	573
Turner, Joseph Mallord William	27	203
Vertue, George	28	41
Ward, James	28	698
Woollett, William	29	506
Wyon, William	29	590
FRANCE		
Audebert, Jean Baptiste	2	535
Audran, Gerard	2	536
Baléchou, Jean Jacques Nicolas	3	78
Baltard, Louis Pierre	3	112
Baltard, Victor	3	112
Bervic, Charles Clément	3	583
Boissieu, Jean Jacques de	4	175
Bosse, Abraham	4	291
Bracquemond, Joseph Felix Auguste	4	383
Callot, Jacques	5	228
	11	689
Charpentier, François Philippe	6	335
Cochin, Charles Nicolas	7	182
Daubigny, Charles François	8	492
Delacroix, Ferdinand V. E.	8	604
Delaune, Etienne	17	106
Dorigny, Louis	9	266
Dorigny, Michel	9	266
Dorigny, Nicholas	9	266
Etex, Antoine	10	531
Flameng, Léopold	11	330
Jacque, Charles Emile	15	593
Jacquemart, Jules F	15	593
Laulne, Etienne de	17	106
Laune, Etienne de	17	106
Le Clerc, Sébastien	17	163
Legros, Alphonse	17	257
Lorraine, Claude	7	61
Manteuil, Robert	19	690
Meryon, Charles	18	684
Millet, Jean F	19	124
Rajon, Paul A	23	195
GERMANY		
Aldegrever, Heinrich	1	352
Aldegraf, Heinrich	1	352
Beham, Hans Sebald	3	445
Blond, Jacques Christophe le	4	103
Brendamour, Franz Robert	4	465
Chodowiecki, Daniel Nicolaus	6	582
Cranach, Kranach, or Kronach, Lucas	8	153
Dürer, Albrecht	9	421
Gruner, Wilhelm Heinrich	13	505
Kobell, Ferdinand	16	502
Mandel, Eduard	18	205
Müller, Johann Gotthard von	19	557
Pencz, Georg P	21	499
Raab, Johann Leonhard	23	102
Siegen, Ludwig von	24	793
Tischbein, Johann H. W.	26	645
ITALY		
Andreani, Andrea	1	672
Bartoli, Pietro Santi	3	295
Bartolozzi, Francesco	3	296
Botticelli, Sandro	4	316
	14	701
Calamatta, Luigi	5	155
Cellini, Benvenuto	6	173

Biographies — cont'd	Vol.	Page
Finiguerra, Masa (Tommaso)	11	223
Morghen, Raffaello	19	457
Raimondi, Marc Antonio	23	179
OTHER COUNTRIES		
Amsler, Samuel	1	592
Bartsch, Adam von	3	298
Bolswert, Boetius Adam	4	196
Carneiro, Joaquim da Silva	5	639
Cort, Cornelius	8	25
De Bry, Theodor	8	544
Everdingen, Aldart	10	596
Gessner, Salomon	12	627
Goltzius, Hendrik	13	40
Hollar, Wenzel	14	318
Hollar, Wenceslaus	14	318
Houbraken, Jacobus	14	441
Kobell, Jan	16	502
Ostade, Adrian van	21	25
Potter, Paul	22	452
Ropes, Felician	23	687
Ruisdael, Jacob van	23	763
Van Ryn, Rembrandt	23	363
Visscher, Cornelis	28	141

Photography

SUBJECTS

Photography — cont'd	Vol.	Page
Albumen process	22	2
Alkaline solution	22	4
Amateur Photographers, Society of	22	3
Ammonia	22	3
Astrophotography	2	472
Autographic camera	16	506
Blue print	4	126
process	22	5
Bromine	22	2
Calotype	5	235
	22	2
Camera image, first	22	1
Camera lucida	5	260
Camera obscura	5	261
Camera, photographic	5	260
Carbon printing process	22	4
Chromatype	6	632
Cinematograph	6	685
Collodiobromide emulsion	22	3
Collodion process	15	283
Color photography	7	312
	22	5
Condenser	22	14
Cyanotype process	4	126
Daguerreotype	15	288
	22	1
	22	2
process	8	392
Diaphragm	9	71
Dihydroxy-benzene	14	584
Dissolving views	9	171
Dryplate photography	15	283
Energiatype	11	142
Ferrotype	11	142
Ferrous oxalate developer	22	4
Film	11	211
Filter	11	211
	22	14
Fixing	11	305
bath	15	101
Flare spot	22	13
Focus	11	410
Gelatine film	22	4
Gelatino bromide photographic emulsion	15	284
	22	3
Gum-bichromate process	22	5
Halftone three-color plates	22	6
Hand photographic camera	15	284
Heliographic observation of sun spots	22	6
Heliogravure	22	7
Hydroquinone	14	584
Inserts	22	15
	22	16
Joly-McDonough colored lines	22	5
Kinetoscope	15	285
pictures	21	392
Kodak	16	506
	22	3
developing machine	16	506
film tank	16	506
Kodak snap-shot camera	15	285
Lippmann's interference process	22	5
Moving pictures	19	535
Microphotography	14	342
	19	33
Mutoscope	19	656
Negatives, development and treatment of	20	40
One-reel play	22	15
Opaque paper	22	4
Orthochromatic plates	22	7
Ozotype process	22	5
Pathé News Film	21	392
Photo-aquatint method	21	800
Photoengraving	21	799
Photographic experiments, first	15	282
Photographic lantern-slide	22	7
Photographic lens	17	290
Photographic platinotype process	15	284
Photographic portraits (Daguerreotype process)	15	288
Photographs of the moon's surface	19	424
Photography	9	312
	17	516
	22	1
Application of to astronomy	2	466
color	7	312
in natural colors	22	5
submarine	25	763
Photo-glytography	22	7
Photogravure	21	800
	22	7
Photo-lithography	22	7
Photomicrograph	22	13
Photomicrography	19	33
	22	7
Photoplay	22	15
Photo-prints from paper negatives, making	15	288
Photo-sculpture	22	16
Potassium carbonate	22	4
Potassium iodide	22	2
Positive	22	421
Projection lantern	22	6
Practical machine, first	22	3
Printing-out paper	22	14
Prints, first	22	4
Pyro ammonia	22	4
Pyrogallic acid	2	322
	28	43
Quarter-plate	15	104
Quinol	14	584
Reel	22	15
Reticulated screen for halftone photographic printing	15	288
Rollable film	22	4
Rotogravure	23	718
Screen color lined plate	22	5
Scientific investigation	22	6
Silver in photography	25	14
bromide	22	6
nitrate, solution of	22	2
Solutions	22	3
Split reel	22	15
Stereogram, parallax	25	627
Stereoscope	22	2
	25	627
Stereoscopic slide	25	628
Submarine photography	25	763
Telephot	26	395
Textile printing by photography	7	314
Three-color images	22	5
Three-color process	21	800
Tripack process	7	314
	22	6
Try-out	22	15
Two-reel play	22	15
Wax-paper process	22	2
Whole plate	22	2

Biographies

Photography — cont'd	Vol.	Page
Berkley, Herbert	22	4
Carbutt, John	22	3
Cornelius, Robert	8	393
Daguerre, Louis Jacques Mandé	8	392
Draper, William	22	1
Eder, Joseph Maria	9	581
Goddard, Paul Beck	8	393
Herschel, John	14	151
	22	1
	22	5
Herschel, William	14	151
	22	2
Ives, Frederic Eugene	15	563
	22	6
Lea, Carey	22	4
Levy, Louis Edward	17	331
London, Henry	22	3
Newton, Henry Jotham	20	289
	22	3
Niepce, Joseph Nicéphore	8	393
	20	335
Pathé, Charles	21	392
Ponton, Mungo	22	1
Stoddard, John Tappan	25	665
Swan, Joseph Wilson	26	109
Vogel, Hermann Wilhelm	22	6
	28	163

Sculpture

SUBJECTS

Photography — cont'd	Vol.	Page
Achilles	24	458
Acroliths	1	104
Agesander	1	236
Agoracritus	1	239
Alcamenes	1	341
Alto-Relievo	1	452
American medalists	24	469
Aphrodite of Melos	24	461
Arundelian marbles	2	370
Athene Parthenos	2	493
Athene Promachos	21	722
Athlete, The	2	497
Attic artists	26	167
Aux Morts	24	466
Babylonia-Assyria, sculpture of	2	436
Barberini Faun	3	236
Base	3	302
Bas-relief	3	300
Bathycles	3	339
Boboli Gardens	4	138
Boëthus	4	151

Sculpture — cont'd	Vol.	Page
Bronze column of Hildesheim	12	561
Bryaxis	4	648
Bupalus	5	30
Bust	5	75
Cæcilia Metella, sepulchre of	15	518
Caractacus (Foley)	24	462
Carving	5	690
Cavo Relievo, sculpture in	6	152
Cenotaph	6	192
Chasing	6	346
Christ in art	6	597
Chryselephantine	6	647
	13	35
Cleopatra's Needles	7	89
Coelanaglyphic sculpture	6	152
Colossus	7	331
of Rhodes	7	331
of San Carlo Borromeo	7	331
Column of July	7	346
Column of Trajan	7	346
Column Vendome	7	346
Concavo-convex sculpture	6	152
Contrast	7	599
	24	459
Corymbus	8	31
Demi-Relief	8	638
Demi-Relievo	8	638
Departure, The	24	465
Diadumenos	9	55
Dibutades	9	77
Discobolus	9	154
Dying Gaul, The	9	454
	24	460
Effigie	9	720
Effigy	9	720
Elephanta	3	300
Elgin marbles from the Parthenon	10	238
	24	460
Ellora	3	300
End of the Trail, The	24	469
Entombment, The	10	400
Faience	10	712
Faience sculpture	23	564
Falling Gladiator	23	525
Farnese Bacchus	11	43
Farnese Bull	11	43
Farnese Hercules	11	43
Farnese Homer	11	43
Farnese Juno	11	43
Farnese Minerva, The	11	43
Faun of Praxiteles	11	63
Figurehead	11	204
Florentine Masters	24	463
German sculpture	12	561
Gladiators	12	677
Gothic art	13	79
Greek sculpture	13	383
Hebe	14	56
Hebe (Thorwaldsen)	24	461
Hermes	14	131
Hermes of Praxiteles	13	384
Incinerating tombs	15	515
Italy, ancient, art in	15	514
John the Baptist	24	466
Jupiter Capitolinus, statue of	7	331
Leipzig Völkerschlacht Memorial	24	468
Liberty Enlightening the World	3	290
	7	331
	21	816
Liberty, statue of	17	350
Light and shade	17	423
	24	459
Lincoln cent	4	466

Sculpture — cont'd	Vol.	Page
Lion of Brunswick	12	561
London, public monuments of	17	626
Lysenias	17	787
Marforio	18	278
Medal	18	530
Memorial arch	18	613
Michael and Satan (Flaxman)	24	461
Modeling	15	516
	19	285
Nereid Monument at Xanthos	13	384
Night (Schilling)	24	463
Nile Group	20	347
Niobe	20	366
	24	459
Papirius and Mother	24	459
Parian marble	21	299
Parthenon	2	494
	3	300
Perspectus, sculptural	21	639
Phocas column	21	785
Photo-sculpture	22	16
Pictorial art	15	521
Plastic art	15	518
Plastic decorative art	15	519
Plaster cast	24	458
Puritan, The	24	129
Relief	23	341
Renaissance in sculpture	23	369
	24	462
Reproduction in bronze	24	458
Restoration	23	419
Sad Virgin, The	12	562
Sarcophagi in Louvre	15	516
Sculpture	24	458
American	1	558
	24	468
architectural	24	460
Austrian	24	468
Byzantine	5	107
Chaldæan	24	460
education in	24	464
Egyptian	10	14
	24	458
	24	460
English	24	467
French	11	694
German	12	561
	24	467
Greek	13	382
history of	24	460
Italian	15	526
	24	465
mediæval	24	462
modern	24	466
19th century	24	465
Norwegian	24	467
Phœnician	21	788
Roman	15	514
Romanesque	15	521
Russian	24	27
	24	468
Sicilian	15	517
Spanish	24	458
	24	466
	25	347
Sculpture Society, National	24	469
Scribe, The	24	455
Shakespeare bust	24	648
Solomon's Temple	21	788
	26	408
Statue of Charles IV	7	331
Statue of Germania	7	331
Statuettes, pre-historic	24	461
Tanjare Bull	26	242
Terra-cotta in sculpture	26	445
Terra-cotta figurines	24	460
Terra-cotta ornamental designs	15	516

Sculpture — cont'd	Vol.	Page
Thinker, The	24	466
Tombs	26	681
Tomb of Darius	21	624
Torso	26	713
Belvedere	26	713
Towneley marbles	26	727
Unkei School	15	697
Vaults, artificial crematory	15	514
Venus	28	9
Venus (Canova)	24	461
Venus of the Capitol	28	9
Venus Genetrix	28	9
Venus of the Hermitage	28	10
Venus de Medici	24	458
	28	10
Venus of Melos	28	10
Victory (Rauch)	24	462
Warrior vase	13	383
Women sculptors	24	469
Wood carving	29	478
Winged Victory of Paionios	13	384
Zeus	21	722
	29	706

See art of the several countries under **Fine Arts — General.**

Biographies

UNITED STATES

	Vol.	Page
Adams, Herbert	1	121
Augur, Hezekiah	2	541
Ball, Thomas	3	93
Barnard, George Grey	3	264
	24	469
Bartholomew, Edward Sheffield	3	291
Bartlett, Paul Wayland	3	294
Bissell, George Edwin	4	22
Bitter, Karl Theodore Francis	4	24
	24	469
Borglum (John), Gutzon (de la Mothe)	4	271
Borglum, Solon Hannibal	4	272
Brenner, Victor David	4	466
Brown, Henry Kirke	4	606
Bush-Brown, Henry Kirke	5	73
Calder, Alexander Stirling	5	186
Clarke, Thomas Shields	7	49
Couper, William	8	112
Crawford, Thomas	8	165
Dallin, Cyrus Edwin	8	419
	24	469
Donoghue, John	9	260
Doyle, Alexander	9	289
Duveneck, Frank	9	443
Elwell, Frank Edwin	10	268
Ezekiel, Moses Jacob	10	688
Flanagan, John	11	332
Fraser, James E	24	469
French, Daniel Chester	12	61
	24	468
Gebert, Johannes Sophus	12	351
Gelert, Johannes Sophus	12	361
Gerhardt, Karl	12	496
Gould, Thomas R	13	84
Greenough, Horatio	13	437
Hart, Joel T	13	733
Hartley, Jonathan Scott	13	741
Hosmer, Harriet G	14	426
Hoxie, Vinnie Ream	14	461
Hughes, Ball	14	477
Hyatt, Anna Vaughn	14	535
Jackson, John Adams	15	580
Jaegers, Albert	15	594

Biographies — cont'd	Vol.	Page
Kelly, James Edward...	16	344
Kemeys, Edward.....	16	348
Keyser, Ephraim.....	16	388
Kitson, Henry Hudson..	16	466
Kitson, Theo Alice Ruggles	16	466
Konti, Isidore	16	519
Launitz, Robert Eberhard	17	106
Lewis, Edmonia.....	17	333
Longman, Mary Evelyn Beatrice	17	646
McKenzie, Robert Tait..	18	69
Macdonald, James Wilson Alexander.....	18	37
Macmonnies, Frederick William	18	84
MacNeil, Carol Brooks..	18	85
MacNeil, Herman Atkins	18	85
Manship, Paul.....	18	235
Martiny, Philip.....	18	343
Mead, Larkin Goldsmith	18	473
Mears, Helen Farnsworth	18	479
Mills, Clark.....	19	128
Milmore, Martin.....	19	130
Morse, Sidney.....	19	484
Mozier, Joseph.....	19	544
Newman, Allan George.	20	274
Niehaus, Charles Henry	20	333
O'Connor, Andrew.....	20	571
	24	469
O'Donovan, William Rudolf	20	586
Palmer, Erastus Dow...	21	212
Perry, Roland Hinton..	21	607
Potter, Edward Clark..	22	451
Potter, Louis.....	22	452
Powers, Hiram.....	22	497
Pratt, Bela Lyon.....	22	511
Proctor, Alexander Phimister	22	631
Remington, Frederic....	23	365
Rinehart, William Henry	23	527
Roberts, Howard.....	23	569
Rogers, John.....	23	629
Rogers, Randolph.....	23	629
Roth, Frederick George Richard	23	717
Ruckstuhl, Fred Wellington	23	751
Rush, William.....	23	780
Saint Gaudens, Augustus	24	129
	24	468
Scudder, Janet.....	24	456
Shrady, Henry Merwin.	24	757
Simmons, Franklin.....	25	23
Story, William Wetmore	25	700
Taft, Lorado.....	26	212
Thompson, Launt	26	579
Tilden, Douglas.....	26	623
Valentine, Edward Virginius	27	645
Volk, Leonard Wells....	28	173
Ward, John Quincy Adams	28	699
Warner, Olin Levi.....	28	706
Weinman, Adolph Alexander	29	172
Whitney, Anne.....	29	233
Whitney, Gertrude Vanderbilt	29	283
Zolnay, George Julian..	29	723

UNITED KINGDOM

Biographies — cont'd	Vol.	Page
Armsted, Henry Hugh..	2	285
Bacon, John.....	3	23
Baily, Edward Hodges..	3	54
Banks, Thomas.....	3	151
Bell, John.....	3	476
Boehm, Joseph Edgar...	4	148
Brock, Thomas.....	4	571
Bruce-Joy, Albert.....	4	626
Chantrey, Sir Francis Legat	6	293
Drury, Alfred.....	9	355
Epstein, Jacob.....	10	439
Fillans, James.....	11	209
Flaxman, John.....	11	339
Foley, John Henry.....	11	415
Ford, Edward Onslow..	11	464
Frampton, George James	11	572
Gibbons, Grinling.....	12	641
Gibson, John.....	12	644
John, William Goscombe	16	157
Lawes-Wittewronge, Sir Charles	17	143
Nollekens, Joseph.....	20	392
Steele, John.....	25	607
Stevens, Alfred George..	25	635
Swan, John Macallan...	26	108
Thom, James.....	26	570
Thornycroft, William Hamo	26	589
Timworth, George.....	26	643
Turner, Joseph M. W...	27	203
Watson, Musgrave Lewthwaite	29	110
Weeks, Henry.....	29	157
Westmacott, Richard...	29	224
Williamson, Francis John	29	347
Wilton, Joseph.....	29	370
Woolner, Thomas.....	29	507

FRANCE

Biographies — cont'd	Vol.	Page
Adam, Lambert Sigisbert	1	115
Aube, Jean Paul.....	2	529
Bartholdi, Frédéric Auguste	3	290
Bartholomé, Paul Albert	3	290
	24	466
Barye, Antoine Louis...	3	299
	24	465
Bogaert, Martin Vanden	9	10
Bouchardon, Edmé.....	4	320
Boucher, Alfred.....	4	320
Bonnassieux, Jean.....	4	218
Bosio, François Joseph.	4	287
Bourgeois, Charles Arthur	4	370
Cam, Augustus Nicolas.	5	147
	5	242
Carpeaux, Jean Baptiste	5	651
	11	694
	24	465
Chelles, Jean de.....	6	377
Clésinger, Jean Baptiste Auguste	7	91
Coustou, Guillaume (the Elder)	8	128
Coustou, Guillaume (the Younger)	8	128
Coustou, Nicolas.....	8	128
Coysevox, Antoine.....	8	142
D'Angers, David.....	8	501
Danton, Antoine Laurent	8	463
Danton the Elder.....	8	463
Danton, Jean Pierre....	8	463
Danton the Younger....	8	463
David, Pierre Jean.....	8	501
Debay, Auguste Hyacinthe	8	542
Debay, Jean Baptiste Joseph (the Elder)...	8	543
Debay, Jean Baptiste Joseph (the Younger)	8	543
Delaplanche, Eugène ...	8	607
Desjardins, Martin.....	9	10
Dubois, Paul.....	9	374
Dumont, Augustine Alexandre	9	399
Dupaty, Louis Marie Charles Mercier	9	410
Duret, Francisque.....	9	424
Etex, Antoine.....	10	531
Falconet, Etienne Maurice	10	727
Falguière, Jean Alexandre Joseph.....	10	729
Francheville, Pierre....	11	751
Franqueville, Pierre....	11	751
Fremiet, Emmanuel....	12	58
Girardon, François.....	12	664
	15	565
Goujon, Jean.....	11	689
	13	83
Guillaume, Eugene.....	13	536
Houdon, Jean Antoine..	14	441
Injalbert, Jean Antoine.	15	134
Jouffroy, François.....	16	215
Lemoyne, Jean Baptiste.	11	690
Leroux, Frédéric Etienne	17	312
Mercie, Antonin.....	18	666
Michel, Claude (Clodion)	19	14
Millet, Aimé.....	19	124
Pajou, Augustin.....	21	132
Palissy, Bernard.....	21	207
Pigalle, Jean Baptiste..	22	78
Pilon, Germain	22	88
Pradier, James.....	22	500
Préault, Antoine Auguste	22	518
Puget, Pierre Paul.....	11	689
	22	792
Rodin (Francois), Auguste	11	694
	23	621
Roubillac, Louis François	23	719
Rude, François	11	694
	23	752
	24	465

GERMANY

Biographies — cont'd	Vol.	Page
Barthel, Melchior.....	3	289
Begas, Karl.....	3	422
Begas, Reinhold.....	3	442
Blässer, Gustav.....	4	64
Cauer, Emil.....	6	130
Cauer, Karl.....	6	130
Cauer, Robert.....	6	130
Dannecker, Johann Heinrich von.....	8	463
	12	562
Donndorf, Karl Adolf..	9	278
Drake, Friedrich.....	9	302
Eberlein, Gustav	9	520
Encke, Erdmann.....	10	315
Engelhard, Friedrich Wilhelm	10	336
Halbig, Johann.....	13	630
Kaupert, Gustav.....	16	322
Kiss, August.....	16	462
Klinger, Max.....	16	473
König, Otto.....	16	516
Krafft, Adam.....	12	562
Kraft, Adam.....	16	537
Kreling, August von...	16	540
Miller, Ferdinand von..	19	118
Oeser, Adam Friedrich..	20	595
Pfuhl, Johannes.....	21	702
Prell, Hermann.....	22	529
Rauch, Christian Daniel.	23	230
Reusch, Friedrich.....	23	438
Riemenschneider, Tilman	23	516
Rietschel, Ernst Friedrich August.....	23	517
Ryshrack, John Michael	24	74
Schadow, Johann Gottfried	24	361
Schadow, Rudolph.....	24	361

Biographies — cont'd	Vol.	Page
Schilling, Johannes	24	374
Schluter, Andreas	24	381
Schwanthaler, Ludwig von	24	409
Schweinitz, Rudolf	24	411
Siemering, Rudolph	24	793
Vischer, Peter	12	562
	28	132
Widnmann, Max	29	296
Wolff, Albert	29	441
Wolff, Emil	29	441
ITALY		
Algardi, Alessandro	1	381
Ammanati, Bartolomeo	1	577
Antelami, Benedetto	2	15
Apulia, Niccolo d'	15	523
Arcagnolo	20	738
Aretino, Il Cavaliere	17	303
Arezzo, Niccolo Lamberti di	15	527
Arnolfo Di Cambio	2	319
Arnolfo Di Lapo	2	319
Balzico, Alfonso	3	128
Bandinelli, Baccio	3	140
Bartolini, Lorenzo	3	295
Bartolommeo, Baccio	3	140
Begarelli, Antonio	3	442
	15	529
Benedetto Da Maiano	3	508
Bernini, Giovanni Lorenzo	3	574
Bienaime, Luigi	3	690
Briosco, Andrea	4	544
Campagnola, Domenico	5	273
Campagna, Girolamo	5	273
Canova, Antonio	5	526
	15	531
Cassano, Scipione	15	531
Cellini, Benvenuto	6	173
Cione, Andrea di	15	528
Cosmati family	15	522
Civitali, Matteo	7	27
Desiderio Da Lettignano, Di Bartolommeo Di Francesco	9	9
Donatello	9	255
Donato di Betto Bardi	9	255
Duccio, Agostino di	15	528
Dupré, Giovanni	9	415
	15	531
Evander, Avianus	15	518
Fansaga, Cosimo	11	12
Farinato, Paolo	11	20
Fedi, Pio	11	88
	15	531
Ferrari, Ettore	11	136
Ferrucci, Andrea	11	142
Ghiberti, Lorenzo	12	633
Grandi, Giuseppe	15	531
Laocoon group	16	738
Leoni, Leone	17	308
Leoni, Pompeo	17	303
Leopardi, Alessandro	17	304
Marochetti, Charles	15	531
Michelangelo, Buonarroti	19	15
	24	463
Micheloszo, Micheloszi	19	18
Mino Da Fiesole	19	209
Monteverde, Giulio	19	404
Niccolo of Arezzo	20	310
Orcagna	20	738
Orsi, Achille d'	21	10
Pisano, Giovanni	15	523
	22	116
Pisano, Niccola	15	445
	22	116
Pollajuolo, Antonio	22	319
Quercia, Jacopo Della	23	83
Riccio, Antonio	23	484
Rizzo, Antonio	23	484
Robbia, Lucadella	15	527
	23	564
Rossellini, Antonio	23	707
Rossellino, Bernardo	23	707
Rosso, Medardo	15	531
Sansovino, Andrea	24	275
Sansovino, Jacopo Tatti	24	275
Sarto, Andrea del	1	671
	15	529
Tabacchi, Odoardo	15	531
Tatti, Jacopo	15	529
	24	275
Tenerani, Pietro	15	531
Torrigiano, Pietro	26	711
Vela, Vincenzo	27	721
Vinci, Leonardo da	28	98
Vittoria, Alessandro	15	529
Ximenes, E.	15	531
	24	275
OTHER COUNTRIES		
Allward, Walter Seymour	1	429
Alvarez, Don José	1	459
Ancheta, Miguel de	25	348
Antokolski, Mark Matvyeevich	2	44
Asam, Ægidius Quirinus	2	375
Becerra, Gaspar	3	401
	25	348
Berruguete, Alonzo	3	577
	25	348
Bissen, Hermann Wilhelm	4	22
Bologna, Giovanni di	4	193
Calamis	5	155
Canachus	5	288
Ceracchi, Giuseppe	6	218
Cespedes, Pablo de	6	231
Chares	6	305
Cibber, Caius Gabriel	6	666
Clodt-Jurgensburg, Peter Karlovitch	7	123
Dædalus of Sicyon	8	390
Donner, Georg Raphael	9	260
	12	562
Duquesnoy, François	9	416
Euphranor	10	577
Eutychides	10	588
Fernkorn, Anton Dominikus	11	181
Fogelberg, Bengt Erland	11	412
Freund, Herman Ernst	12	98
Geefs, Gillaume	12	355
Geefs, Joseph	12	355
Hébert, Louis Philippe	14	57
Jerichau, Jens Adolf	16	26
Kipling, John Lockwood	16	452
Knabl, Joseph	16	476
Lambeaux, Jef (Joseph Marie Thomas)	16	672
Leochares	17	298
Lysippus	17	787
MacCarthy, Hamilton Thomas	18	21
Meshtrovitch, Ivan	18	686
Milles, Ruth Anna Maria	19	123
Milles, Vilhelm Karl Emil Anderson	19	123
Montañéz, Martinez	25	348
Montorsoli, Fra Giovanni Angelico da	19	413
Myron	19	661
Natter, Heinrich	19	767
Naucydes	19	781
Phidias	2	494
	21	721
Pilz, Vincenz	22	90
Polyclitus of Sicyon	22	328
Praxiteles	22	514
Pythagoras of Rhegium	23	47
Scopas	24	425
Sinding, Stefan Abel	25	83
Thorwaldsen, Albert Bartholomew (Bertel)	24	467
	26	589
Troubetskoy, Paul	27	96
Wagner, Peter	12	562
Weyr, Rudolf	29	230
Zorn, Andero Leonard	29	731

Minor Arts

GENERAL	Vol.	Page
Armagh, Book of	15	328
Arnaudon's green	6	632
Asiatic enamels	2	342
Aubusson tapestry	26	254
Azulejo	2	692
Battik	3	343
Bayeux tapestry	3	364
Beauvais tapestry	26	253
Bronze	13	35
Brooch	4	589
Calligraphy, art of	15	519
Cameo	12	697
cutting	24	686
Cameos	5	259
Canadian embroidery	5	478
Carpets, Syrian	26	480
Carving	5	690
Japanese	15	698
Ceramics. See **Pottery and Porcelains.**		
Certosina work	15	99
Chantilly lace	16	629
Chasing	10	315
China decorations	6	546
China ink	6	547
Chinese lacquerwork	16	637
Chrome green	6	632
Chryselephantine	6	647
	15	563
Cloisonné	7	123
enamels	2	340
Couching	10	275
Crewel-work	8	190
Coptic tapestries	26	252
Crochet	8	217
Curio	8	308
Damaskeening	8	429
Decorative arts, Mohammedan	19	298
Diptychs	9	142
	15	565
Durrow, Book of	15	328
Egyptianized clay	10	24
Embroidery	10	275
Embossing	10	275
Enameling	10	311
	15	516
Enamels	10	311
Asiatic	2	342
modern	2	342
Enchasing	10	315
Etruscan art	15	515
Etruscan gold jewelry	13	35
Etruscan vases	10	557
Festoon	11	157
Fireworks	11	218
French point lace	16	628
Gems, engraving of	12	363
Gilding	12	651
Glass. See **Glass and Glass Making.**		
Glyptics	12	734
	15	516
	15	519
Gobelin manufactory	12	742
Gold beater's skin	13	11

Minor Arts — cont'd	Vol.	Page
Gold beating	13	11
Goldsmithing	13	34
Byzantine	13	35
Gothic period	13	36
history	13	34
modern	13	36
technology	13	34
Goldsmith trade	11	709
Gothic tapestries	26	252
Guarrazar, treasure of	13	35
Guignet's green	6	632
Howth, garland of	15	328
Indian ink	6	547
Inlaying	15	140
bedery	15	140
buhl	15	140
certosina	15	99
kuftgari	15	140
mosaic	15	140
pietra dura	15	140
Reisner	15	140
tarsia	26	274
tutenague	15	140
wood	26	274
Italian pillow lace	16	628
Ivories	15	563
Byzantine	15	564
Chinese	15	566
Christian	15	564
Gothic	15	565
Japanese	15	566
Oriental	15	566
Post-renaissance	15	565
sculptors in	15	565
secular art in	15	565
Japanning	15	747
Jewelry, Chinese	16	55
French	16	54
German	16	54
Kells, Book of	15	328
Lace	16	627
Lacquering	16	636
Lacquers	16	636
Lacquerwork	16	636
Laid work	10	275
Lapidary work	16	742
Liber hymnorum	15	328
Lindesfarne, Book of	15	328
Lyte jewel	16	54
MacDurnan, Gospels of	15	328
MacRegol, Gospels of	15	328
Majolica	18	154
Majolica vases	15	523
Manuscript decoration, Mohammedan	19	298
Manuscripts, illuminated	18	243
Marquetry	12	189
	15	140
	18	308
Merton tapestry	26	255
Molding and carving	15	517
Mortlake tapestries	26	254
Padella	21	92
Paper hangings	28	233
Polychromy	22	327
Polychrome ornaments	15	514
Porcelains. See Pottery and Porcelains.		
Portland vase	22	400
Pyrography	23	44
Pyrotechny	11	219
	23	45
Pyx	23	50
Rag carpets	23	763
Rugs, Afghan	23	761
Anatolian	23	760
Beluchistan	23	761
Berghama	23	760
Bokhara	23	761
Bushir	23	761
Caucasian	23	760
Chichi	23	761
Chinese	23	762
Circassian	23	761
Daghestan	23	761
Darbent	23	761
Eastern Turkoman	23	761
Ganji	23	761
Hardjle Prayer	22	517
Herati	23	759
Heris	23	759
Indian	23	762
Iran	23	759
Ispahan	23	759
Kabistan	23	761
Karabagh	23	761
Kashghar	23	762
Kashmir	23	761
Kazak	23	761
Khiva	23	761
Kilim	23	762
Kirman	23	759
Kir-Shehir	23	760
Koniah	23	760
Koulah	23	760
Kurd	23	760
Kurdistan	23	759
Kutahia	23	760
Kutais	23	760
Ladik	23	760
making, Oriental	23	757
Melez	23	760
Mousul	23	761
ornamentation, Oriental	23	758
Persian	23	759
Prayer	22	516
Syrian	26	480
Samarkand	23	761
Sehna	23	759
Shamakha	23	761
Shiraz	23	759
Shirvan	23	761
silken, of Persia	21	625
Sumak	23	761
symbolism, Oriental	23	758
Tekke namazlik Prayer	22	517
Turkish	23	750
Turkoman	23	761
weaving of	23	762
Yomud	23	761
Yuruk	23	760
Saint Chad, Gospels of	15	328
Samarkand rugs	23	761
Sampler inscriptions	24	226
Samples	24	225
Savonnerie tapestry	26	254
Sgraffito decorations	24	635
Shell cameos	24	686
renaissance pieces	24	686
Sistine Chapel	15	217
	27	697
Situlæ	15	515
Stenciling	25	615
Stowe missal	15	328
Tambour work	26	233
Tapestries	26	252
American looms	26	255
English	26	254
extant masterpieces	26	255
Flemish art	26	259
French	26	253
German	26	253
Italian	26	253
Japanese	26	255
manufacture of	26	256
oldest	26	258
renaissance	26	253
Russian looms	26	255
Spanish looms	26	255
Tapestry characteristics	26	255
Tapestry works	26	256
Tapestry museums	26	259
Tapestry weaving	26	257
history of	26	258
Taxidermy	26	294
Torsia	26	274
Translucent enamel work	2	342
Trichinopoly	13	34
Vases	15	515
	27	693
Venetian enamels	2	342
Wall paper	28	233
Wax figures	29	119
Waxworks	29	120
Weaving, decorative	26	480
Wood carving	29	478

Furniture

Armoire	12	189
Art nouveau	12	196
Beds	3	410
Bedstead	12	185
	12	188
Bisellium	12	188
Buffet	4	696
Chair	6	249
	12	185
Chaise à vertugadin	12	190
Chandelier	6	283
Chests	12	185
Chippendale furniture	6	563
	12	183
Clocks	12	186
Coffers	7	211
	12	189
Constitution mirror	12	186
Court cupboards	12	193
Cupboards	12	185
court	12	193
Dais	8	412
Desks	12	186
Divan	9	187
Dresser	12	188
Dressing table	12	185
Empire furniture	12	191
English lantern clock	12	186
Faldestool	12	189
Fender	11	115
Frisian wall clocks	12	186
Furniture	12	182
	15	102
Byzantine	12	188
Chippendale	6	563
	12	183
Colonial	12	184
Dutch	9	485
Elizabethan	12	192
Empire	12	191
English	12	192
Flemish	9	435
French	12	190
Georgian Period	12	193
German	12	191
Greek	12	187
Heppelwhite	12	183
history of ancient	12	187
Italian	12	189
Jacobean	12	192
Louis XIV	12	190
Louis XV	12	190
Louis XVI	12	191
Mediæval	12	189
Queen Anne	12	193
Regency	12	190
Roman	12	188
Romanesque	12	189
Tudor	12	192
Kathedra	12	187
Looking glasses	12	186
Low Boy	12	185

Furniture — cont'd	Vol.	Page
Marriage chest	12	190
Mirrors	12	186
	19	221
Mission style	12	196
Rohlfs furniture	13	421
Roman lectus	12	188
Settle	12	185
Sheraton furniture	12	188
Sideboards	12	186
Tables	12	186
Tripons	12	187
Trunk	27	107
Wicker furniture	29	293

Biographies

Böttger, Johann Friedrich	4	316
	9	327
Castellani, A.	13	36

Biographies — cont'd	Vol.	Page
Cellini, Benvenuto	6	173
	13	36
Chicaneau, Pierre	22	370
Chojiro	15	741
Doulton, Henry	9	282
Eginton, Francis	12	711
Engelmann, Gottfred	17	514
Gorodayu Goshonzui	15	741
Hanfstangl, Franz	13	677
	17	514
Harris, W. Laurel	15	222
Hunter, George Leland	14	514
Ishikawa Komei	15	699
Koch, Joseph Anton	16	504
Kunz, George Frederick	16	556
Linge, Bernhard von	12	711
Lloyd, Marshall B.	29	291
Ninsei	15	742
Palissy, Bernard	21	207
	22	456

Biographies — cont'd	Vol.	Page
Poterat, Edme	22	370
Rosenthal, Max	23	697
Sakaida Kakiemon	15	742
Senefelder, Aloys	17	514
	24	560
Sheraton, Thomas	24	700
Takemura Kozun	15	699
Takuchi Kyuichi	15	699
Tiffany, Louis Comfort	12	712
	15	223
	26	620
Toshiro	15	741
Villerme, Joseph	15	565
Wedgewood, Josiah	29	154

See also **Architecture; Glass and Glass-making; Music; Painting; Pottery and Porcelains.**

FISHERIES

General

Alaskan fisheries	1	313
Alaska seal industry	24	484
Athabasca and Mackenzie system, fisheries of	5	444
Austria-Hungarian fisheries	11	286
Bait freezers	5	445
Belgian fisheries	11	286
Bomb lance	4	198
British Columbia, fisheries of	4	555
British fisheries	18	271
Bulton	15	99
Cade	15	99
California, fisheries of	5	209
Caller Herrin	13	274
Canadian fisheries	5	442
	11	285
	23	72
Canadian Fishing Banks	5	444
Caller oo	13	274
Caller Haddies	13	274
Canning and preserving fish	5	508
	11	284
Caspian Sea sealing	24	481
Catching fishes	11	275
Clams, canning of	5	509
Coarse fish	13	274
Cod	7	192
	11	284
Crabs	8	143
Danish fisheries	8	680
	11	286
Delaware fisheries	8	610
Diamond back terrapin fisheries	9	66
Dog salmon	24	194
Dom pinchon	11	278
English fisheries	11	285
	13	271

General — cont'd		
Fingerlings	5	508
	11	284
Fish	11	266
	11	288
Fish and Fisheries, United States Commission of	11	279
Fish berry	7	181
Fish canning and preserving	5	508
	11	438
Fish catching	11	275
Fish culture	11	278
Fisheries	11	282
Bureau of	11	284
	11	286
dispute, the Atlantic	20	266
Fisheries and sealing	27	363
Fisheries of Alaska	1	313
	24	484
of Austria-Hungary	11	286
of Belgium	11	286
of British Columbia	4	555
of California	5	209
of Canada	5	442
	11	285
of Delaware	8	610
of Denmark	8	680
	11	286
of England	11	285
	13	271
of Florida	11	370
of France	11	285
of French Indo-China	12	72
of Germany	11	285
of Hawaii	11	285
of Iceland	14	628
of Indiana	15	34
of Ireland	11	285
	13	271
	15	310

General — cont'd		
of Italy	11	286
of Japan	11	286
of Louisiana	17	681
of Maine	18	144
of Maryland	18	352
of Massachusetts	18	409
of Mississippi	19	243
River	11	284
of Netherlands	11	286
of Newfoundland	11	285
of New Jersey	20	139
of New York	20	190
of North Carolina	20	414
of Norway	11	285
	20	438
of Nova Scotia	20	463
of Oregon	20	774
of Pennsylvania	21	521
of Philippine Islands	11	285
of Quebec	23	72
of Rhode Island	23	466
of Russia	11	285
of Sardinia	24	300
of Scotland	13	271
	24	432
of South Carolina	25	290
of Spain	11	286
	25	325
of Sweden	11	286
	26	116
of Tennessee	26	419
of United States	11	282
of Virginia	28	118
of Wales	13	271
of Washington	28	783
of Wisconsin	29	419
Fisheries protection vessels, Canadian	5	445
Fisheries question	11	286

General — cont'd	Vol.	Page
Fishes, geographical distribution of	11	288
Fishing bounty, Canadian	5	445
Fishing bounties	11	293
Fish trap	11	280
Fishway	11	294
Flakes	7	193
Florida fisheries	11	370
Food fishes, American	11	284
Fresh water fisheries, Canadian	5	444
French fisheries	11	285
French Indo-China fisheries	12	72
Fry	11	278
	11	284
German fisheries	11	285
Government hatcheries, Canadian	5	445
Great Lakes fisheries	11	284
Hawaiian fisheries	11	285
Herring fishery	13	271
	14	149
Hudson Bay fisheries	5	443
Humpback salmon	24	194
Iceland fisheries	14	628
Ichthyology	14	635
Indiana fisheries	15	34
Inland fisheries, British	13	274
Inspection and branding of pickled fish, Canadian	5	445
Inspection of fish canneries, Canadian	5	445
Ireland fisheries	13	271
	15	310
Irish fisheries	11	285
Italian fisheries	11	286
Japanese fisheries	11	286
Katsuo	16	317
Kippering	15	103
Lobster	17	553
Lobster fisheries of the United States	17	554
Lobster packing on the Canadian Atlantic Coast	5	443
Lofoten Island fishery	11	285
Louisiana fisheries	17	681
McDonald's fish-hatching jar	11	278
Mackerel fishing, British	13	272
Maine, fisheries of	18	144
Maryland fisheries	18	352
Massachusetts fisheries	18	409
Minor fisheries, Canada	5	445
Mississippi fisheries	19	243
Mississippi River fisheries	11	284
Netherlands fisheries	11	286
Newfoundland fisheries	11	285
	20	269
New Jersey fisheries	20	139
New York fisheries	20	190
North Carolina fisheries	20	416
North Sea fisheries	11	286
	13	272
Norwegian fisheries	11	285
	11	286
	20	438
Nova Scotia fisheries	20	463
Oregon fisheries	20	774
Oyster industry	11	284
Oyster production	21	84
Oysters	21	81
Canadian	5	445
canning of	5	509
Pacific Coast division	5	443
Pearl fisheries	21	455
shell, sale of	24	684
value of	24	694
Pelagic sealing	21	480
	24	484
Pennsylvania fisheries	21	521
Philippine Island fisheries	11	285
Pisciculture	11	278
Planters	7	193
Portuguese fisheries	11	286
Pound-net fishing	22	472
primitive apparatus	22	472
Quebec fisheries	23	72
Rhode Island fisheries	23	466
Russian fisheries	11	285
Salamba	24	178
Salmon	24	191
Salmon, artificial propagation	24	194
annual catch of	24	193
Atlantic	24	191
blue back	24	194
Salmon canning industry on the Canadian Pacific Coast	5	443
Salmon fishery	11	284
Sardine fishery	24	298
Sardines	14	149
Scotland fisheries	13	271
Sealing	24	479
catches	24	481
	24	432
Greenland	24	481
grounds	24	480
Jan Mayen Island	24	481
methods	24	481
Nova Zembla	24	481
season	24	480
vessels	24	481
Shad	24	637
artificial propagation of	24	636
Shark fisheries	24	660
Shells for spat collecting	24	685
Silver salmon	24	194
South Carolina fisheries	25	290
Smelts	5	445
Spanish fisheries	11	286
	25	325
Spawning season, Quinnat	24	193
Sponge fisheries	11	286
	25	429
Steelhead salmon	24	194
Sturgeon fisheries	11	285
	25	753
Sturgeon fishery, Canadian	5	445
Swedish fisheries	11	286
	26	116
Tennessee fisheries	26	419
Trawlers and line-fishers, British	13	273
Trawling	27	21
with steam power	13	272
Trolling	27	84
United States Commission of Fish and Fisheries	11	278
United States Fisheries	11	282
Virginia fisheries	28	118
Wales fisheries	13	271
Washington (State), fisheries	28	783
Whale fishing	11	284
	13	274
Whaling	29	235
Wisconsin fisheries	29	419
Yearlings	11	284

See also under **Amusements, Games, Sports — Angling**; and under **Zoology — Crustacea and Fishes.**

FORESTRY AND LUMBERING

General	Vol.	Page
Alaskan forests	1	315
	11	479
American Forestry Association	1	520
American Wood Preservers' Association	1	567
Australian forests	2	600
Biltmore estate	11	484
Black Forest	4	35
Brazil, forest products of	4	433
	17	234
Brazilian forests	4	433
British Columbia, lumber resources	4	555
Broadleaf timbers	17	733
Calydon forest	5	241
Camphor forests	11	492
Canadian Federal Forest Service	5	434
Canadian forest area	5	433
Canadian forest lands, control of	5	434
Canadian forest products, value of	5	436
Canadian forest reserves	5	434
Canadian Forest Services, general	5	434
Canadian forestry education	5	434
Canadian forests	5	433
Canadian lumber industry	5	433
	5	446
Canadian standing timber	5	435
Canadian timber, annual cut	5	435
Charnwood forest	6	335
Climate, effect of forests	7	108
Commercial woods, characteristics of	17	731
Conifers	17	731
Floods, effect of forests on	7	109
Forest fires	11	468
Forest laws	11	469
Forest products, exports and imports by United States	17	734
Forest of Thuringia	26	601
Forest products, major	27	87
minor	27	87
Forest regions	11	477
	17	729
	27	88
Forest schools	11	470
Forest Service Organization	11	482
Forest trees of America	11	470
Forest trees, tropical	11	473
Forestry, American, government investigation and co-operative work	11	482
government work	11	480
history of	11	479
practice	11	485

General — cont'd	Vol.	Page
Forestry as an investment	11	484
Forestry associations	11	477
Forestry by private owners	11	484
Forestry in the States	11	488
Forestry in the United States	11	477
Forestry, technical	11	484
management	11	484
mensuration	11	485
production	11	484
protection	11	485
silviculture	11	484
utilization	11	485
valuation	11	485
Forests, central hardwood	11	478
distribution of stand	11	479
national	11	480
Northern pine	11	478
Pacific Coast	11	479
petrified	11	486
Rocky Mountain	11	478
Southern pine	11	478
French-Indo-China forest products	12	73
Hawaiian forests	11	479
Hardwoods	17	733
Idaho forests	14	656
India forests	15	3
Indiana forests	15	33
Kentucky forests	16	365
Kyanizing	16	563
Letchworth Park and Arboretum	17	319
Logging	17	599
	17	730
Louisiana forestry	17	680
Lumber	17	728
by-products	17	735
grading and inspection	17	730
industry in the United States	17	728
manufaturing processes and methods	17	730
prices, tendency of	17	734
production statistics	17	732
production, volume of	17	731
State	17	735
Maine forests	18	144
Maryland forests	18	352
Michigan forests	19	21
Michigan lumbering	19	21
Minnesota forests	19	202
Mississippi forests	19	243
Missouri lumber	19	255
Montana forests	19	386
Montana lumber	19	386
Newfoundland lumbering	20	269
New Hampshire forests	20	126
New Mexico forests	20	149
New South Wales forests	20	162
New York forests	20	191
New York lumber	20	191

General — cont'd	Vol.	Page
North Carolina forests	20	413
Norway forests	20	488
Ohio forests	20	611
Oregon forests	20	774
Oregon lumbering	20	776
Paraguayan forests	21	279
Pennsylvania forests	21	521
Philippine Island forests	11	479
Philippines Islands, timber in	27	88
Pollarding	22	320
Porto Rican forests	11	479
Portugal forests	22	410
Quebec forests	23	72
Queensland forests	23	81
Redwood lumbering	23	292
Reforestation	11	481
Russia forests	24	5
Sawmill	24	333
Sawmilling	17	730
Sherwood forest	24	707
Silviculture	11	484
Softwoods	17	731
South Carolina forests	25	291
Spain forests	25	325
Submarine forests	25	761
Sweden forests	26	116
Tennessee forests	26	419
Thuringerwald	26	601
Timber, broadleaf	17	733
preservation of	29	476
species	17	729
supply of the United States	17	729
Transplanting	27	7
large trees	27	8
Trees, large, transplanting	27	8
Tropical forest products	27	87
bamboo	27	93
Brazil nut or Monkey-pot family	27	90
hardwood	27	87
Lauan or Dipterocarp family	27	90
laurel family	27	91
locust family	27	89
mahogany family	27	88
mangrove family	27	92
miscellaneous woods	27	92
palms	27	93
peculiar	27	94
pine family	27	92
Quebracho or Sumac family	27	91
rubber, guttapercha and chicle	27	93
teak family	27	91
Tropical forest regions	27	88
Tropical forests	27	94
Veneer industry	17	733
Veneers and veneering	27	726
Virginia forests	28	118
Washington (State) lumbering	28	782
West Virginia forests	29	211
West Virginia lumbering	29	211
Wisconsin forests	29	419

General — cont'd	Vol.	Page
Wood	29	475
preservative, treatment of	17	734
Woods, imported, manufacture of	17	733

Trees

	Vol.	Page
Acacia	1	60
	11	472
	11	475
Acapú	27	90
Acle	27	90
African padauk	27	89
Aguacate	27	91
Ailanthus	1	273
Akee	1	294
Aleurites	1	360
Algarroba	27	89
All Saints' wood	4	444
Almond	1	432
Aloes wood	1	434
Amarillo de Guayaquil	27	90
Apitong	27	90
Apple wood	2	84
Araguanay	27	92
Araribia	27	90
Araucariales	2	135
Arborvitæ	2	146
	11	479
Areca	2	190
Areng palm	2	191
Ash	2	382
	11	478
Aspen	2	404
Astrocaryum	2	452
Avocado	2	680
	27	91
Balata	27	93
Balsam fir	11	478
Balsamo	27	90
Balsamo de Tolu	27	90
Balsa wood	27	92
Bamboo	3	129
	11	475
	27	93
Banyan trees	3	217
	11	474
Baobab	3	217
Barwood	5	288
Basswood	3	319
	11	478
	17	4[illegible]6
	17	733
Bataan mahogany	27	90
Beam tree, white	3	377
Beech	3	422
	11	478
Beef wood	3	428
Bibiri	11	475
Bilimbi	3	702
Billian	27	91
Birch	3	724
	11	478
	17	733
Blackwood	27	89
Borneo camphor	27	90
Borneo ironwood	27	91
Bottle tree	4	317
Box elder	4	368
Boxwood, Venezuela	27	92
West India	27	92
Brazil nut	27	90
	27	91
Brazilwood	4	444
	27	89
Buckeye	4	665
	14	411
Bullet tree	5	16
Bully tree	5	16
Burnham beeches	5	58

Trees — cont'd	Vol.	Page
Butternut tree	5	90
	11	471
Cabbage palmetto	24	77
Cabreúva	27	90
Cadamba	5	131
Calabash tree	5	153
Calamander wood	5	155
Calambac	5	155
Calaveras grove	5	157
Campeachy	5	283
	27	89
Campeche	5	283
	27	89
Camphor	5	284
	27	91
Borneo	27	90
Camwood	5	288
Cana brava	27	93
Canary wood	5	489
Canella	5	499
	27	91
Caracoli	27	91
Carnauba	5	632
Carob	5	645
Carreto	27	92
Cartan	27	90
Casearia	27	92
Castanheiro	27	91
Castilloa elastica	6	6
Catalpa	6	43
	11	473
Cavitúna	27	89
Cedar	6	160
	11	475
	17	733
Barbadoes	6	161
Mexican	6	161
of Lebanon	6	160
red	6	160
Spanish	6	161
	27	88
Western red	24	714
yellow	6	161
Cedrela	6	164
Cedro	27	88
Ceiba	27	92
Cerasus	6	222
Cherry	6	418
wild	11	471
Chestnut	6	429
	11	478
	17	733
European	6	429
Japanese	6	429
Chicle	27	93
China tree	6	548
Chinquapin	6	430
Chiquichiqui palm	6	565
Chittagong wood	6	571
Chocolate tree	7	189
Citron	6	711
Citronwood	6	711
Citrus wood	6	711
Cladrastes	7	28
Clearing nut	7	78
Cocoanut	7	190
Cocoa tree	7	189
Cocobola wood	27	89
Coco de Mono	27	91
Cocos	7	191
Coconut	7	190
Coniferæ	7	520
Coniferous woods	27	87
Copahyba	27	89
Copse	7	667
Cork wood	7	696
	27	92
Cotton tree	27	87
	27	92
Cotton wood	8	90
	11	478
Courbaril	27	89

Trees — cont'd	Vol.	Page
Cucumber tree	8	291
Cypress	8	367
	11	478
	17	732
Dammara	8	431
Deodar	8	701
Diomate	27	91
Dipterocarp family	27	90
Dogwood	9	232
Doornboom	9	262
Duramen	9	416
Dwarfed trees	9	445
Ebony	27	92
green	13	425
Senegal	27	89
Elm	10	258
	11	478
	17	733
American	10	2[illegible]9
European	10	259
Embuia	27	91
Espava	27	91
Eucalyptus	10	559
Fir	11	229
	11	471
Douglas	11	479
	11	481
	17	732
Forest trees of America	11	470
Forest trees, tropical	11	473
Fringe tree	12	112
Fustic	12	203
	27	92
Gambia	27	88
Gateado	27	91
Georgia bark	12	490
Granadillo	27	89
Greenheart	27	91
Surinam	27	92
Guada	27	93
Guaiacum	13	508
Guarabú	27	90
Guayacan	27	92
jobo	27	90
Guayaquilcane	27	93
Gum, red	11	478
	23	281
trees	13	546
Guijo	27	90
Hardwood	11	478
Hemlock	11	479
	14	88
Hevea braziliensis	27	93
Hickory	11	478
	14	168
Honey locust	14	357
	27	89
Horse chestnut	14	411
Ibirapitanga	27	89
Incienso	27	90
India rubber tree	15	26
Ipé	27	92
Ipil	27	90
Ironbark tree	15	389
Ironwood	15	389
Borneo	27	91
Jacarandá	27	89
Jatahy	27	89
Jequitibá	27	91
Kakeralli	27	91
Kapoc	11	475
	27	87
	27	92
Kapor	27	90
Kauri	16	322
Kentucky coffee tree	16	372
Kiaboucca	16	397
King wood	16	450
	27	91
Kruen	27	90
Kudumba	5	131

Trees — cont'd	Vol.	Page
Kyabucca	16	397
Laburnum	16	624
Lace bark	16	631
Lancewood	16	690
Larch	11	481
	16	746
Lauan	27	90
Laurel	27	91
	27	92
Laurel family	27	91
Lee-chee	17	505
Lepacho	27	92
Lignum vitæ	27	92
Lime (tree)	17	441
Linden	17	456
American	17	456
European	17	456
Litchi	17	505
Locust	17	588
black	27	89
family	27	89
West Indian	27	89
Logwood	17	611
	27	89
Louro	27	91
	27	92
Macaw tree	18	15
Madrona	18	109
Mahogany	11	474
	18	137
African	27	88
Andiroba	27	89
Bataan	27	90
Brazilian	27	89
Carapa	27	89
Colombian	27	91
Demarara	27	89
Espave	27	91
family	27	88
Philippine	27	90
Senegal	27	88
Mango	18	212
Mangrove	18	213
family	27	92
Mangue	27	92
Manicoba	27	93
Maple	11	478
	17	733
	18	259
ash-leaved	4	368
Japanese	18	260
Norway	18	259
red	18	259
silver	18	259
sugar	18	259
sycamore	18	259
Marfim	27	92
Matamata	27	91
Mellcocca	18	604
Mija	27	91
Mijagua	27	91
Milk tree	19	109
Molave	27	91
Monkey Pot family	27	90
Monkey pots	27	91
Mora	27	92
Moraceæ	19	439
Narra	27	89
Nazareno	27	90
Negrillo	27	89
Nispero	27	93
Oak	11	478
	20	529
British	20	530
chestnut	20	530
European	20	530
forest	11	470
live	20	530
red	20	530
scarlet	20	530
water	20	530

Trees — cont'd	Vol.	Page
white	20	530
Oil palm	27	93
Oleo	27	90
Osage orange	11	473
	21	15
Osier	21	20
Padauk	27	89
Palms	21	216
	27	93
areng	2	191
cabbage	21	216
chiquichiqui	6	565
date	8	490
doom or doum	9	261
face	11	9
ivory nut	27	93
Palmyra	21	217
Panama hat	27	93
Palmyra wood	21	217
Palo Santo	27	92
Pão Brazil	27	89
Pão d'arco	27	92
Pão Roxo	27	90
Paradise nut	27	91
Paulownia	21	421
Pernambuco wood	4	444
	27	89
Peroba	27	92
amarello	27	92
rosa	27	92
Persimmon family	21	630
	27	92
Pine	11	481
	22	96
	27	92
bull	22	97
Cuban	22	97
frankincense	22	97
Georgia Southern	22	97
loblolly	22	97
lodgepole	11	478
long-leaf	22	97
mountain white	22	97
Norway	22	97
oil field	22	97
Paraná	27	93
red	22	97
	23	525
Scotch	24	427
screw	24	451
shortleaf	17	732
silver	22	97
slash	22	97
spruce	22	97
sugar	11	479
	22	97
swamp	22	97
western yellow	11	479
white	11	478
	17	732
	22	97
yellow	22	97
Piquiá marfim	27	92
Pistacca	22	118
Plane	22	151
Plum	22	252
Poplar	22	362
balsam	22	362
black	22	362
Carolina	22	362
Lombardy	22	362
white	22	362
yellow	11	478
	17	733
Pride of China	22	570
Pride of India	22	570
Purpleheart	27	90
Pyingado	27	90
Quebracho	23	77
	27	91
Quince	23	91

Trees — cont'd	Vol.	Page
Rattans	23	227
	27	93
Red lauans	27	90
Redwood	11	479
	23	290
Redwood, Borneo	27	90
Redwood of California	23	291
Ressak	27	90
Rimu	23	525
Ringwood	5	288
Roble blanco	27	92
Rosetta wood	23	700
Rosewood, Indian	27	89
Rosewoods	23	695
	27	89
Rubber trees	23	745
	27	93
Sabal	24	77
Saint Martha wood	4	444
Sal	24	175
	27	90
Samaúma	27	92
Sapan	24	290
Sapindaceæ	24	290
Sapodilla	24	290
	27	93
Sappan wood	24	290
	27	89
Sapotaceæ	24	291
Sapucaia	24	292
Sapucaya	27	91
Satin wood	24	311
Scotch fir	24	427
Scotch pine	24	427
Screw pine	24	451
Selangan batu	27	90
Seriah	27	90
Seringa	27	93
Service tree	24	605
Seychelles cocoanut	24	632
Sibucao	27	89
Silk cotton tree	25	6
Sneeze wood	25	145
Spruce	11	478
	11	481
	17	732
	25	460
Stinkwood	25	653
Sumac	26	9
	27	91
Sweet gum	26	126
Sycamore	11	478
	26	155
Taboca	27	93
Talipot	26	225
Tallow tree	26	230
Tamarack	11	473
	26	232
Tamarind	26	232
Tamaneo	27	90
Tanguile	27	90
Tauarys	27	91
Teak	11	475
	26	318
	27	91
Tectona grandis	27	91
Thingan	27	90
Timber, broadleaf	17	733
species	17	729
Tindalo	27	90
Tonka bean	26	687
Toon	26	698
Toona	26	698
calantas	27	88
Trincomali wood	11	475
Tuba	11	476
Tulip tree	11	472
	27	135
Tupelo	11	478
	27	166

Trees — cont'd	Vol.	Page
Umbrella tree	27	267
Upas tree	27	583
Urunday	27	91
Varnish tree	27	691
Violet wood	27	90
Walnut	11	478
	28	243
black	11	471
	17	733
	28	244
Circassian	11	472
white	5	90
Wax palm	27	98
Whistle wood	29	260

Trees — cont'd	Vol.	Page
Willow	29	350
black	29	351
white	29	351
Yacal	27	90
Yellow wood	29	628
Ylang-Ylang	11	474
	29	638
Zapaters	27	91
Zebra wood	29	691
Zelkona tree	29	697

Biographies

Brandis, Sir Dietrich	4	412
Brewer, William Henry	4	475

Biographies — cont'd	Vol.	Page
Fernow, Bernhard Edward	11	131
Judeich, Johann Friedrich	16	232
Nisbet, John	20	369
Pinchot, Amos Richard Eno	22	98
Pinchot, Gifford	22	98
Pratt, George Du Pont	22	512
Schenck, Carl Alwyn	24	367
Schlich, Sir William	24	380
Toumey, James William	26	719

FOSSILS

Fossil Animals (Palæozoology)

Abyssal facies	21	188
Acanthodei	11	277
Acanthodii	14	636
Acanthoëssidæ	14	636
Acidaspis	1	92
Aceratherium	1	83
	23	465
Actinistia	14	640
Agriochærus	23	773
Aipyornis	10	427
Allodon	22	140
Allosaurus	1	424
	9	128
Allotheria	22	694
Alticamelus	5	259
Amblypoda	1	472
	27	254
	27	281
Ammonite cephalopods	16	254
Ammonites	1	579
Ammonoidea	1	580
Amphibia, fossil	1	586
Amphicyon	1	587
	5	642
Amphistiidæ	14	646
Amynodonts	1	597
Anaptomorphus	1	623
Anarthrodira	14	639
Anaspida	14	638
Anchisaurus	1	652
	9	128
Anchitherium	1	652
	14	399
Ancylodactyla	1	656
Ancylopoda	1	656
Ancylotherium	6	252
Anguillavidæ	14	644
Animals, extinct	10	667
Ankiyosaurus	9	129
Anomodontia	26	547
Anoplotherium	2	5
	23	773
Anthracotheriidæ	23	773
Anthracotherium	2	19
Anthrothoraci	14	639

Fossil Animals — cont'd		
Antiarcha	14	638
Antilopidæ	4	409
Ape-man of Java, The	18	189
Apteryx	2	103
Archæocæti	29	705
Archæoceti	6	233
Archæopteryx	2	164
	16	254
	20	586
	24	320
	25	242
Archæornithes	2	165
	20	75
Archegosaurus	2	166
	25	610
Archelon	22	692
Arctotherium	3	385
Arthrodires	11	276
Arthrodira	9	141
	14	638
Arthrodires	14	637
Arthrognathi	14	639
Arthropoda	2	353
	21	191
Artiodactyla	2	369
	27	289
Asaphus	27	65
Asineopidæ	14	645
Aspidocephali	14	638
Aspidoganoidei	14	637
Astarte	2	443
Asterapis Desiderata	11	276
Asterolepidæ	14	638
Asterolepis	2	446
Asterolepis of Stromness	14	639
Asterosteidæ	14	639
Astrapotheriidæ	2	451
Ateleaspidæ	14	638
Atlantosaurus	24	320
Aulopidæ	14	643
Bactrites	3	81
Baculites	3	31
Baptanodon	3	218
Basilosaurus	29	705

Fossil Animals — cont'd		
Bats	3	325
	18	179
Beaver	3	399
cave	23	620
Belemnites	3	453
Bellerophon	3	482
Belodon	3	493
Belodontia	8	218
Belonorhynchidæ	14	642
Bembridge beds	3	497
Bennettitales	11	397
Big Bone Lick, site of fossil beds	3	693
Birds, fossil	3	731
Birkeniidæ	14	638
Blattidæ	4	71
Blochiidæ	14	650
Bolodon	22	140
Bos brachycerus	21	68
Bos primigenius	21	68
Bos taurus primigeneus	6	110
Bothriolepis	22	746
Brachiopods	4	380
	21	189
	21	195
Brachiosaurus	9	128
Bramatherium	4	409
Branchiosauridæ	25	610
Branchiosaurus	4	410
Brontosaurus	9	128
	16	254
	24	320
Brontotherium	4	581
Bufonite	4	697
Cœlacanthidæ	14	640
Calaveras skull	5	157
Camarasaurus	5	243
Camelidæ, fossil	5	258
Camptosaurus	9	129
Candylarthra	5	498
Carboniferous vertebrate fauna	21	192
Carnivora	5	642
	18	179
Carnivores	18	179

Fossil Animals — cont'd	Vol.	Page
Casoryx	23	773
Castor spelæus	23	620
Castoreum	3	399
Castoroides	6	17
Caulopteris	6	131
Cave bears	3	385
beaver	23	620
hyena	14	589
Cenozoic era	21	193
Cephalaspidæ	14	638
Cephalaspis	6	216
Cephalopods	6	217
	21	195
Ceratopsia	9	130
Ceratosaurus	6	222
Cervalces	6	228
Cestraciontes	11	277
Cetacea	6	233
	18	178
Cetaceans	18	178
Cetiosaurus	6	233
Chalicothere	6	252
Chalicotherium	6	252
Cheirotherium	16	625
Chelonichthyidæ	14	639
Chimæras	11	276
Chimæridæ	6	513
	14	637
Chiroptera	18	179
Chirotes	6	569
Chirothissidæ	14	643
Chondrosteidæ	6	587
	14	642
Cladodontidæ	14	636
Cladoselache fyleri	14	636
Claosaurus	26	548
Claosaurus, trachadon, or Trachodon	7	32
Cobitopsidæ	14	645
Coccosteidæ	14	639
Coccosteus	7	181
	14	639
Cochliodontidæ	14	636
Cockroach	7	188
Cœlenterata	7	206
Compsognathus	7	451
	9	127
Condylarthra	7	484
	27	281
Coneylike beast	14	398
Conodonts	7	534
Cope's elasmosaurus	22	246
Coprolites	7	667
Corallic facies	21	188
Coryphodon	8	31
Corythosaurus	9	129
Cosoryx	8	38
	18	684
Cotylosauria	8	90
Creodonta	8	179
Crested pterodactyls	22	748
Crinoid	8	204
Crocodiles, fossil	8	218
Crossopterygians	11	276
Crossopterygii	11	266
	14	639
Cryptoprocta	24	85
Ctenacodon	22	140
Ctenodipterini	14	641
Ctenodontidæ	14	641
Ctenothirissidæ	14	643
Cycadaceæ fossil	8	354
Cycadales, classification of	8	360
Cynodictis	5	642
	8	366
Cystoidea	8	374
Dendrerpetum	8	676
Dentalium	8	688
	24	353
Dercetidæ	14	643

Fossil Animals — cont'd	Vol.	Page
Dermochelys coriacea	22	692
Devonian fauna	21	191
Devonian fossils	9	42
Diceratherium	9	78
	23	465
Dictyonema	9	90
Dictyorhabdus	11	276
Dicynodon	9	90
Didymograptus	9	94
Dimorphodon	9	123
Dinictis	24	86
Dinichthyidæ	14	639
Dinichthys	9	125
	9	141
Dinocerata	18	323
	23	549
	26	642
Dinohyus	9	126
Dinornis	9	126
	13	602
Dinornithes	9	126
Dinosaur	2	164
Dinosauria	9	126
	14	144
	22	694
Dinosaurian extinction	9	130
Dinosaurian existence, duration of	9	126
Dinosaurian footprints	9	127
Dinosaurs	16	254
Dinosaurs, classification of	9	127
Dinotheriidæ	27	282
Dinotherium	9	130
Diplacanthidæ	14	636
Diplarthra	27	282
Diplodocus	9	128
	9	140
	24	320
Diplopterus	9	140
Diplospondyli	14	636
Dipneusta	14	639
Dipnoans	11	276
Dipnoi	9	141
Diprotodon	9	142
	20	459
australis	2	560
Dipsosaurus dorsalis	9	6
Dipteridæ	14	641
Dipterus	9	142
Dissorophus multicinctus	25	610
Dogs, fossil	9	231
Drepanaspidæ	14	638
Dromocyon	9	339
Earliest fossil eels	14	644
Edentata	9	580
	18	178
Edentates	18	178
Edestidæ	14	636
Eels, earliest fossil	14	644
Elasmosaurians	10	48
Elasmotherium	10	48
	23	465
Elephants, fossil	10	223
Elephas primigenius	18	180
Elotherium	10	265
Elurodon	1	174
Encheliidæ	14	644
Enchodontidæ	14	643
Encrinites	10	316
Endoceras	10	320
Endothyra	10	323
Entomis	10	400
Eobasileus	10	407
Eohippus	10	408
	14	398
	18	323
Eoscorpius	10	408
Epihippus	10	422
	14	398
	18	323

Fossil Animals — cont'd	Vol.	Page
Epiornis	10	427
Equus	14	399
Equus scotti	14	397
Erismatopteridæ	14	645
Eryon	10	487
Eryops	10	487
Estheria	10	523
Estuarine facies	21	188
Eucalyptocrinus	10	559
Eugnathus	10	572
Euomphalus	10	576
Euphaneropidæ	14	638
Eurypterid crustaceans	21	196
Eurypterus	10	584
fauna	21	190
Eutheria	10	586
	18	178
Exocoetoididæ	14	643
Extinct animals	10	667
sharks	24	660
Facies development	21	188
fresh water	21	189
Faunal changes	21	188
Favositidæ	11	70
Fishes	11	276
	14	636
Fish lizards	14	653
Fossa	11	526
Fossils	11	527
Fossil amphibia	1	586
bears	3	385
bison	4	21
fishes	11	276
earliest remains of	14	636
formation	21	174
horses of the age of man	14	397
insects	15	162
mammals	9	189
	18	178
rhinoceroses	23	464
rodentia	23	620
Fossiliferous rocks	11	527
Four-toed horse	14	398
Foxodontia	27	281
Fresh-water facies	21	189
Galecynus	5	642
Galerites	12	235
Ganodonta	12	275
Gastornis	12	333
Genyornis newtoni	2	566
Giant sloth	17	3
Glossotherium	13	492
Glyptodon	9	580
Glyptodont	12	734
Glyptodonts	17	3
Gomphoceras	13	43
Goniatites	13	46
Goniopholis	13	46
Gonorhynchidæ	14	645
Graptolite facies of the Ordovician time	21	190
Graptolites	14	589
	27	620
Graptolitoidea	13	152
Gravigrada	13	492
Grossognatahidæ	14	645
Ground sloths	13	492
Halitherium	25	46
Haplistia	14	639
Heart urchin	14	41
Heidelberg man	18	189
Hemicyon	5	642
Hesperornis	14	155
Heterostraci	14	638
Hipparion	14	200
	14	399
Hippidium	14	397
	14	399
Holoptychiidæ	14	639
Homo heidelbergensis	18	189
neanderthalensis	18	189

Fossil Animals — cont'd	Vol.	Page
Homosteus	14	639
Hoofed mammals	18	178
Hoplophoneus	24	86
Hornless rhinoceros	23	465
Horse, earliest known ancestor of	14	398
four-toed	14	398
wild of prehistoric Europe	14	398
Hyænodon	14	534
Hydrozoa	14	589
	21	195
Hyenarctos	5	642
Hypohippus	14	399
Hypothetical protocheloniau	22	694
Hyrachus	17	655
Hyracodon	23	465
Hyracodonts	14	610
Hyracoidea	27	281
Hyracotherium	14	398
	17	655
Ichnyology	14	635
Ichthyodectidæ	14	643
Ichthyodoroulites	14	637
Ichthyopterygia	14	653
Ichthyornis	14	653
Ichthyornithes	14	653
Ichthyosauria	14	653
Ichthyosaur	16	254
Iguanodon	9	129
Insectivora	15	160
	18	179
Insectivores	18	179
Ischnacanthidæ	14	636
Javan peafowl	21	450
Jurassic period, life of the	16	254
Jurassic fauna	21	193
Labyrinthodonta	16	625
Labyrinthodonts	25	610
Lacustrine facies	21	189
Laosaurus	16	741
Lariosaurus	16	749
Leperdita	17	307
Leperditiidæ	17	307
Lepidostrobus	17	309
Lepidotus	17	309
Lestodon	13	492
	17	318
Liodesmidæ	14	642
Litopterna	14	400
	17	520
Littoral facies	21	188
Lophiodon	17	655
Lophiodontidæ	17	655
Machæodus	24	85
Machærodus	18	51
Machærodontidæ	20	350
	24	85
Machairodontinæ	18	51
Macrauchenia	18	90
Macrauchenidæ	17	520
Macropetalichthyidæ	14	639
Macropetalichthys	9	141
Macrotherium	6	252
	18	91
Mailed lampreys	14	637
Mammals, fossils	9	189
	18	178
Mammoth	9	190
	18	180
Marine trias	21	193
Marrella	18	311
Marsupials	18	178
Marsupilia	18	178
Mastodon	11	527
	18	419
Mastodonsaurus	18	420
Megalonyx	6	143
	9	580
	13	492

Fossil Animals — cont'd	Vol.	Page
Megalosaurus	9	128
	18	593
Megatheriidæ	9	580
	13	492
Megatherium	6	143
	13	492
	17	3
	18	594
americanum	13	492
	18	594
Megathium	25	100
Merycodus	18	684
Mesohippus bairdi	14	399
intermedius	14	399
oligocene	14	399
Mesonychidæ	9	339
	18	687
Mesonyx	18	687
Mesoreodon	23	773
Mesozoic fauna	18	690
	21	192
Metatheria	18	178
Miacidæ	19	7
Microconodon	19	32
Microlestes	22	140
Miohippus	19	216
Miolania	22	693
Miskoa	19	227
Moa	19	276
Mœritherium	19	290
Monoclonius	9	130
Monotremata	18	128
	19	370
Monotremes	18	178
Moropus	6	252
Morosaurus	19	472
Multituberculata	19	561
	22	694
Mylodon	9	580
	13	492
	19	660
	25	100
robustus	19	660
Mylostomidæ	14	639
Myriacanthidæ	14	637
Natatores	19	722
Neohipparion	20	73
Nimravus	20	350
	24	86
Nimravidæ	20	350
	24	85
Nothosauridæ	16	749
Nothosaurus	20	458
Notidani	14	636
Notornis mantelli	20	459
Nototherium	20	459
Nyctosaurus	22	747
Odontodontidæ	14	638
Odontolcæ	20	586
Odontornithes	18	323
	20	586
Odontotormæ	20	587
Oldhamia	20	658
Oligopleuridæ	14	642
Onchus	14	637
Ophiderpeton	25	610
Oredon	23	773
Oreodontidæ	23	773
Oreodonts	20	785
Oreopithecus	20	785
Ornithischia	9	128
Ormthoscelida	21	8
Ornithopoda	9	129
Ornithostoma	21	8
Orodontidæ	14	636
Orophippus	14	398
	17	655
	18	323
	27	281
Orthopoda	21	13
Osteolepidæ	14	639
Osteolepis	21	26

Fossil Animals — cont'd	Vol.	Page
Ostracliidæ	14	637
Ostracodermi	14	637
Ostracophores	11	276
	21	35
	22	746
Ostracophori	14	637
Pachyrhizodontidæ	14	643
Pachycormidæ	14	642
Palæcudyptes antarcticus	21	507
Palaeorhynchidæ	14	647
Palæospondylus	14	635
Palapteryx	13	602
Palætherium	14	399
Paleomastodon	21	186
Paleontology	12	422
	21	174
	21	186
Paleozoic era	21	195
Paloplotherium	14	399
Pantolambda	21	250
Paradoxides	21	276
Parahippus	14	399
Pavo californicus	21	450
Pelagic facies	21	188
Pentremites	8	204
Perissodactyla	27	282
Pernatherium	6	252
Petalodontidæ	14	637
Phareodontidæ	14	643
Phenacodon	21	720
Phenacodus	5	498
	21	720
Phororhachos	21	798
Pithecanthropus	18	189
	22	121
Placodermi	14	637
Plagiaulacidæ	22	140
Plagiaulax	22	140
Plautus immpennis	2	551
Plesiosaurus	22	246
dolichodirus	22	246
guilelmi imperatoris	22	246
Pleuracanthidæ	14	636
Pliauchenia	5	258
Pliohippus	14	399
Podokesaurus	9	128
Poëbrotherium	5	258
Pogonodon	24	86
Polacanthus	22	693
Polymastodon	22	331
Prehistoric cave beasts	6	143
ox	6	110
Primates	18	179
	22	577
Proboscidea	27	281
Procamelus	5	258
Proterotheriidæ	17	520
Protocephali	14	637
Protodonta	22	694
Protohippus	14	399
Protonotocanthidæ	14	644
Protorohippus	14	398
Protosphyrænidæ	14	642
Protostega copei	22	693
gigas	22	692
	22	693
Protostegidæ	22	692
Protosyngnathidæ	14	646
Prototheria	18	178
	22	694
Protylopus	5	258
Psammodontidæ	14	637
Psammosteidæ	14	638
Pteranodon	22	747
longiceps	22	748
Pteraspidæ	14	638
Pterichthyodes milleri	14	638
	14	639
Pterichthys	22	746
Pterodactyloidea	22	747

Fossil Animals — cont'd	Vol.	Page
Pterodactyls	11	355
	22	746
Pterodactylus	25	242
Pterosauria	22	746
	22	749
Pterosaurs	16	254
Ptilodus	22	140
Ptychodontidæ	14	637
Pycnodontidæ	14	642
Pythonomorpha	23	50
	24	476
Reptilia	23	388
Rhamphorhynchus	25	242
Rhinellidæ	14	643
Rhinoceros tichorhinus	23	465
Rhinoceroses, fossil	23	465
Rhipidistia	14	639
Rhizodontidæ	14	639
Rhytina stelleri	24	473
Rodentia	18	178
Rodents	18	178
Rodents, fossil	23	620
Sabre-toothed tigers	24	85
Saurischia	9	127
Sauropoda	9	128
	24	320
Sauropterygia	22	246
Saururæ	24	320
Scansores	24	353
Scaphopoda	24	353
Scelidotherium	13	492
	18	594
Sea cow	24	473
cows	18	178
Selenosteidæ	14	639
Semionotidæ	17	309
Seriema	25	627
Sharks	14	636
	24	659
Silurian fauna	21	190
Silvatherium	25	49
Sirenia	18	178
	25	46
Sivatherium	4	409
	25	49
Spaniodontidæ	14	643
Species, extinction of	10	669
Squalodons	6	233
Squaloraiidæ	14	637
Stegocephalia	25	610
Stegocephali	16	625
Stegosauria	9	129
Stegosaurus	9	129
Stegothalami	14	639
Stephanosaurus	9	129
Stereornithes	25	627
Struthiomimus	9	127
Subcarboniferous fauna	21	192
Sub-littoral facies	21	188
Subungulata	27	281
Systemodon	17	655
Tamiobatidæ	14	637
Tarrasiidæ	14	639
Taxeopoda	27	281
Temnothoracici	14	639
Tertiary snakes	24	600
Testudinata	22	692
	26	455
Testudines	22	693
Thelodontidæ	14	638
Theriodontia	26	525
Thermorpha	26	547
Theromorpha reptiles	21	193
Theropoda	9	127
	18	593
	26	547
Thespesius	26	548
Thryptodontidæ	14	643
Thyestidæ	14	638
Tillodontia	26	627
Tillotherium	26	627
Tinoceras	26	642

Fossil Animals — cont'd	Vol.	Page
Titanichthyidæ	14	639
Titanosaurus	26	647
Titanotherium	4	581
Topiravus	26	263
Torosaurus	9	130
Toxochelys bauri	22	693
Toxodon	26	737
Toxodontia	17	520
Trachodon	9	129
Tremataspidæ	14	638
Triarthrus	27	52
becki	27	52
Triarthus beckii	27	620
Triceratops	9	129
	9	130
	27	54
Trigonolestes	5	258
Trilobite	27	65
Trilobites	21	196
Trinucleus	27	69
Tritylodon	27	79
Trogontherium	3	399
	23	620
Turtles	22	692
	27	208
Tyrannosaurus	9	128
Uinta beast	27	254
Uintatherium	26	642
	27	254
Ungulata	18	178
	27	281
vera	27	282
Urus	27	606
Uronemidæ	14	641
Urosphenidæ	14	646
Wild horses of prehistoric Europe	14	398
Zeuglodon	29	705
Zeuglodons	6	233
Zeuglodontidæ	29	705
Zeugma	29	705

Fossil Plants — Palæobotany

	Vol.	Page
Abietineaceæ family	21	167
Aneimites fertilis	21	158
	22	746
tenuifolius	22	746
Angiospermæ	22	746
Angiospermophyta	21	167
Anthrodendron	21	150
Araucariales	2	135
	21	165
Arthrophyta family	21	148
Asterophyllites	2	446
	21	150
Asterotheca	21	147
Bacillariaceæ	21	164
Baiera	21	164
Bennettitaceæ	8	354
Botryopteraceæ	21	146
Bothrodendraceæ family	21	154
Bowenia serrulata	8	352
Brachyphyllum	21	166
Bryophyta	21	145
Calamariæ family	21	149
Calamariaceæ family	21	150
Calamite	5	155
Calamites	11	132
	21	192
Calamodendron	21	151
Calamostachya	21	151
Characeæ	21	145
Charophyta	21	145
Cheirolepsis	21	166
Cheirostrobaceæ family	21	149
Chlorophyceæ	6	578
	21	144
Cœnopteridæ	21	146
Coniferales, order of	21	166

Fossil Plants — Palæobotany — cont'd	Vol.	Page
Coniferophyta	21	162
Conifers	7	520
Corallinaceæ	21	145
Cordaitales	7	683
	21	162
Cordaites	21	192
Cordaietales	22	178
Cretaceous flora	21	193
Cupressaceæ family	21	166
Cycadale fronds	21	161
Cycadaceæ	8	351
Cycadales	8	351
Cycadeoid relationships	8	359
Cycadeoidea	8	355
Cycadeoidales	21	159
Cycadite fronds	21	161
Cycadofilices	22	746
Cycadocephalus	21	160
Cycadophyta	8	360
	21	159
Cyathaceæ family	2	48
Cycas	8	351
Danæites	21	147
Diatomaceæ	21	144
Diatoms	9	74
Dictyonema	9	90
Dictyozamites	8	358
Dion spinulosum	8	352
Diplolabis	21	146
Dipteriaceæ family	21	152
Equisetales family	21	152
Eusigillariæ	21	156
Eusporangiate	10	585
	21	146
Eusporangiate ferns	21	146
Eusporangiatæ	22	175
Fern phylum	21	146
Ferns and fern allies	11	131
Filicales	21	146
Forests, petrified	11	486
Fossil cycadaceæ	8	354
Geaptolites	21	195
Gigantopteris	12	647
Ginkgo	12	659
	21	164
Ginkgo adiantioides	21	164
Ginkgoales, order of	21	164
Gleicheniaceæ family	21	148
Gnetales, order of	21	164
Gnetum	21	164
Gymnospermæ	13	591
	22	746
Heterangium	21	157
Hymenophyllaceæ family	11	131
	21	148
Isoetales family	11	131
	21	153
Jurassic flora	16	255
	21	193
Lagenostoma lomaxii	22	746
Lepidodendron	17	307
	21	192
Lepidodendrons	11	132
	17	307
	21	154
Lepidophyta	21	153
Lepidostrobus	17	309
	21	155
Leptosporangiate	21	146
Lignite	17	435
Lycopodites	21	153
Lycopodium	17	771
	21	153
Lyginodendron Oldhamium	22	746
Lyginopteris	21	157
Macrostechya	21	152
Macrozamia spiralis	8	352
	21	161

Fossil Plants — Palæobotany — cont'd	Vol.	Page
Marattiales ferns	11	131
	21	146
Matoniaceæ family	21	148
Medullosaceæ family	21	158
Medullosas	21	158
Microcycas calocoma	8	351
Moss plants	21	145
Mycelial hyphæ	21	145
Nautiloidea	21	195
Nematophycus	20	69
	21	144
Neuropteris boterophylla	22	746
Orthis	21	12
Orthoceras	21	12
Ophioglossales ferns	21	146
Osmundales	21	147
Ottoia	21	49
Palæozoic bacteria	21	145
Palæostachya	21	151
Paleontology	21	186
Paleobotany	21	140
Paleobotany in relation to other sciences	21	144
Patriofelis	21	404
Parapecopteris	21	147
Pecopteris pluckeneti	22	746
Pentacrinus	8	204
	24	475
Phyllocladoideæ family	21	165
Plants in relation to geology	4	310
Plants, remains of	21	142
Pleredaspemeæ	22	177
Podocarpaceæ family	21	165
Podozamite fronds	21	161
Polypodiceæ family	21	148
Polypodiales	21	148
Preservation of fossil plants	21	141
Prinofilices	21	146
Proterozoc algæ	21	144
Proterozoic bacteria	21	145

Fossil Plants — Palæobotany — cont'd	Vol.	Page
Protocalamaricæ family	21	170
Psaroniaceæ tree ferns	21	146
Pseudoborniales	21	150
Psilotales family	21	153
Pteridophyta	11	131
	21	146
Pteridospermæ	22	746
Pteridospermeæ	22	746
Pteridospermophyta	21	157
Pterophyllum fayoli	8	358
Ptychocarpus	21	147
Rhodophyceæ	21	145
Sagenopteris	21	147
Salix	24	189
Salvinaceæ	21	147
Schizæaceæ family	21	148
Scolecopteris	21	147
Selaginellaceæ family	21	153
Sea lily	24	475
Sigillaria	11	132
	21	192
	24	798
Sigillariaceæ family	21	155
Sigillariostrobus cones	21	150
Silicified plant fossil	21	142
Silicified wood	24	811
Sphenophyllum	21	149
Sphenophyltæ	21	149
Stachytaxus	21	165
Stangeria paradoxa	8	352
	21	161
Stauropteris	21	146
Stegocephali	25	610
Sutcliffia	21	158
Taxales, order of	21	164
Taxodiaceæ family	21	166
Tetracorolla	21	195
Thallophyta	21	144
Tumboa	21	164
Voltzia	21	166
Weltrichia	21	160

Fossil Plants — Palæobotany — cont'd	Vol.	Page
Wielandiella	8	358
Wielandiella frond	21	160
Williamsonia mexicana	21	161
fronds	21	160
gigas	21	161
scotia	21	161
spectabilis	21	161
tribe	8	358
whitbiensis	21	161
zamia	29	684
Zamia floridana	8	352
Zygopteraceæ	21	146
Zygopteris	21	146

Biographies

	Vol.	Page
Beauvois, Ambrose Joseph Palisot de	3	396
Beecher, Charles Emerson	3	423
Bowerbank, James Scott	4	363
Brongniart, Adolphe	21	141
Capellini, Giovanni	5	550
Conrad, Timothy Abbott	7	536
Fischer, Paul Henri	11	265
Gaudry, Jean Albert	12	338
Hall, James	13	642
Hyatt, Alpheus	14	534
Lesquereux, Leo	17	316
Marsh, Othniel Charles	18	323
Parkinson, James	21	332
Smith, William	11	527
	25	129
Wachsmuth, Charles	28	208
Williston, Samuel Wendell	29	349

See also **Biology; Botany; Geology; Zoology** and biographies thereunder.

FOUNDRY PRACTICE, MACHINERY AND MACHINE WORK

General	Vol.	Page
About sledge	29	523
Abrasion	29	523
Abrasives	1	49
Arkansas stone	2	261
bort	4	284
carborundum	1	50
	5	595
corundum	1	49
emery wheels	26	694
grindstones	1	49
	26	694
oilstones	1	49
	26	694
pumice	1	49
steel wool	25	607

General — cont'd	Vol.	Page
turkey stone	27	199
whetstones	1	49
	29	254
Accumulator	1	81
Acetylene welding	29	177
Acid, nitric	1	91
sulphuric	1	91
	6	404
Acidulated water	4	170
Action	10	349
Aeroplanes. See Aeronautics.		
Air-blast	1	276
transformer	1	276
Air box	1	277

General — cont'd	Vol.	Page
Air brake	1	277
Air casing	4	170
Air chamber	1	285
Air cock	1	285
Air compressed	7	447
Air compressor	1	285
Air cylinder	1	288
Air drill	1	288
Air engine	1	288
Air gas	1	288
Air gate	1	288
	11	514
Air hole	1	289
Air, hydraulic compression of	7	448

General — cont'd	Vol.	Page
Air lock	1	289
Air pump	1	289
Air spaces	4	171
Air trap	1	290
Ajax bronze	2	31
Alloys	1	425
aluminum	1	456
aluminum brass	1	427
aluminum bronze	1	426
aluminum zinc	1	427
anti-friction	1	427
Babbitt metal	3	4
boron bronze	1	426
Britannia metal	4	553
coinage	1	427
copper	7	651
delta metal	8	629
duriron	9	426
fusible	12	202
heusler	1	427
josephinite	16	213
making metallic	1	426
manganese bronze	18	211
pewter	21	699
phosphor-bronze	21	793
pinchbeck	22	93
platiniridium	22	229
pyrophoric	1	427
solder	25	237
steel	6	404
	25	591
stellite	25	613
tombac	26	682
white metal	29	272
Wood's metal	12	202
Aluminum, or aluminium	1	455
Aluminum, alloys	1	456
brass	1	427
bronze	1	426
characteristics and properties	1	456
history of	1	457
production	1	457
uses	1	457
welding and plating	1	457
zinc	1	427
Angles	11	542
Annealing	1	717
	10	349
	11	542
copper	1	717
electric	10	94
zinc	1	717
Annular seating	27	653
Anti-friction metals	2	31
Antimony	2	34
Anvil	2	49
Applied mechanics	2	90
Aquadag	2	105
Arboring	29	523
Archimedes screw	2	169
Arkansas stone	2	261
Armature	2	266
Armor	10	349
plate	2	275
bending	2	276
cementation process	2	276
dry carbon process	2	276
final testing	2	277
gas carbonizing process	2	276
hardening	2	277
Harvey process	2	275
Krupp process	2	275
manufacture	2	276
planing	2	276
Schneider process	2	275
Arms	2	279

General — cont'd	Vol.	Page
fire	2	279
Asbestos	2	376
Ash pit	4	171
Assembling	29	523
shop	4	524
Autogenous plumbing apparatus	2	641
Autogenous soldering	29	523
Automobile. See **Automobiles and Self-propelled Vehicles.**		
Automobile engine	2	656
Autoplate	2	668
Axe	2	681
Axle	10	349
and wheel	29	248
Axial turbine	27	170
Babbitting	29	523
Babbitt metal	2	31
	3	4
Backing-off	29	523
Backing-out	29	523
Baffle plates	4	171
Baffiers	4	171
Baggage cars	5	580
Balance	10	349
compensation	7	429
rotating	9	455
reciprocating	9	457
Ball and socket	3	94
Ballast	3	98
Ball cock	3	94
Ballooning	4	171
Banding	4	171
Band saw blades	3	137
Bare	29	523
Barffed	29	523
Bars	11	542
Bar-stays	4	171
Bath	10	349
brick	4	551
Batteries, electric	10	94
Battering-off	11	543
Beading	29	523
Bead slickers	11	543
Bead tools	11	543
Beam	3	377
Bearing metal, universal	2	31
Bearing ring	4	171
Bearings	1	31
	3	382
	10	349
anti-friction	3	382
ball	3	388
roller	3	383
Beaumontague	29	523
Bedding-in	11	543
Bell centre, punch	26	692
Bellows	3	491
	4	119
Belt	10	349
Belting	10	349
Bench work	29	524
Bend	29	524
Benders	18	698
Bending moment	10	349
Bending rolls	18	698
Binders	11	543
Blackening	11	543
Black pipe	29	524
Black wash	11	543
Black work	29	524
Blades, band saw	3	137
Blank	29	524
Blast	4	171
	11	543
furnace	4	64
blast heating	4	67
cinder or slag	4	68
dry blast	4	66

General — cont'd	Vol.	Page
fluxes	4	67
fuels	4	67
gas	4	68
iron ores	4	67
iron product	4	68
lines	4	69
practice	4	66
Bleeding	4	171
Blisters	4	171
Block	4	91
Blocking	10	349
up	10	349
Blowers	11	543
high pressure, positive	4	120
piston	4	119
positive	4	120
rotary	4	119
Blowholes	1	289
	11	543
Blowing engines	4	119
Blowing machines	4	119
Blow-off	4	171
cock	4	171
Blowpipe	4	121
Blue-print making, electric	10	98
Bluing of metals	4	130
Boiler	4	166
	10	349
bear	4	172
externally fired	4	168
internally fired	4	166
shop terms	4	170
Bolt	10	349
Bonding	4	171
Bore	4	269
Borers	18	697
Boring	4	273
	10	349
	29	524
Borings, brass	29	524
Bort	4	284
Bottle-tight	4	171
Bottling-up	4	171
Bottom board	11	543
Bowling hoop	4	171
Brake	4	408
	10	349
Brass, aluminum	1	427
borings	29	524
finishing	29	524
industry	7	660
soldering	4	444
Brazing	4	444
	29	524
Breaking joint	4	171
Brick, bath	4	551
Bristol	4	551
making machinery	4	491
Bridge	4	171
construction. See **Building and Construction; also Engineering.**		
shops and shop practice	4	522
Bridle	27	654
Bright work	29	524
Brine pump	4	171
Bristol brick	4	551
Britannia metal	4	553
Broaches	26	697
Broaching	29	524
Bronze	4	582
Ajax	1	31
aluminum	1	426
and brass work	4	583
boron	1	426
steel	4	586
Bronzing	4	589

General — cont'd	Vol.	Page
Brooms	4	640
Brushes	4	640
Buckle	29	524
Buffer, pneumatic	22	265
Buffing	29	524
Buhlwork	4	701
Bunker plate	4	171
Burning-off	11	543
Burning-on	11	543
Burnisher	5	58
Burnishing	29	524
Burr	29	524
Bursting	4	171
Bush	29	524
Bushing	5	73
	29	524
Buttermilk	9	97
Butt measurement	29	524
By-pass	10	349
Cabinet-making	5	120
Calaba oil	5	152
Caliper, rules	26	692
squares	26	692
Calking	5	224
	6	131
Calorimetry	4	171
Cam	5	242
Camber	29	524
Carbolineum	5	588
Carbonate of lime	4	171
Carborundum	5	595
Car building	5	575
Carburetor	5	595
Cars, baggage	5	580
construction features	5	581
freight	5	580
passenger	5	579
sleeping	5	579
special service	5	580
street railway	5	581
Case hardening	5	698
	11	543
Casting	11	544
machinery	11	546
Castings, iron for	11	547
malleable	5	716
steel	25	584
Cast-iron, malleable	5	714
pipe	22	107
Cast-steel	7	718
Caterpillar tractor	26	747
Cauking	6	131
Caulking	4	171
	6	131
Cement	6	189
Centre	10	349
Centre punch (Bell's)	26	692
Centrifugal machines	6	214
Chain making	6	246
Chains	6	246
silent	24	810
sprocket	25	460
Chalk	6	253
red or reddle	6	253
Chamfer	29	524
Channeling machines	23	60
Chaplet	11	548
Charcoal	6	303
Charging	11	543
Chart method	11	543
Chasing	6	346
	10	315
Chatter	29	524
Chilled iron	6	511
Chilling	11	547
Chills	11	543
Chimney	4	171
Chinese windlass	6	559
Chipping	29	524

General — cont'd	Vol.	Page
Chisels	6	569
	26	693
Chromic iron	6	632
Chromite	6	632
Chromium	6	632
Chucking	29	524
Cinder bed	11	543
Circulating tubes	4	171
Circulation	4	171
Clamping	11	543
Clay-working machinery	7	71
Cleaning	11	543
Cleaning-up	11	543
Clearance	29	524
Clearance angle	29	524
Clearing hole	29	524
Clinkering	4	171
Clip hooks	7	116
Clock	7	118
construction	7	118
regulation	7	119
striking mechanism	7	119
Clocks, electric	7	119
tower	7	120
Closing-up	11	543
Clothing	4	171
Clutch	7	139
Coal. See **Fuels and Illuminants.**		
Coal mining machinery	7	151
Coating	4	171
Cock	27	654
air	1	285
blow-off	27	653
drain	27	654
draw	27	654
four-way	27	654
gland	27	654
indicator	27	654
injection	27	654
pet	27	655
sea	27	655
sludge	27	655
stop	27	655
test	27	655
three-way	27	655
try	27	655
valve	27	655
waste-water	27	656
Coefficients	10	349
Cohesion	7	216
	10	349
Coke. See **Fuels and Illuminants.**		
Coke bed	11	543
Cold shuts	11	543
Cold water test	4	171
Collapse	4	171
Collector	4	171
Combined steam	4	171
Combined turbine	27	170
Combustion chamber	4	171
Commutator	7	424
Compasses	7	428
Compensation balance	7	429
Compressed air	7	447
	22	480
Compression	10	350
Concrete machine mixers	7	474
Condenser	7	478
	10	350
electric	10	98
Coning	29	524
Conveyor	7	612
belt	7	613
Conveyors, bucket	7	612
Cooperage	7	639
Cope	11	543
Copper	7	651
alloys	7	651

General — cont'd	Vol.	Page
annealing	1	717
industry	7	660
smelting	7	659
stamping	7	658
Core	11	543
Corrosion	4	171
Corrugated furnace tubes	4	171
Corrugated iron	8	21
Cotton machinery	8	77
Countersinking	29	524
Crane	8	157
fixed	8	157
hydraulic	14	539
portable	8	157
traveling	8	157
Crank	8	159
Cross-tubes	4	171
Crown	4	171
Crow's feet	29	524
Crushers, gyratory	8	260
Crushing machinery	8	258
Cut	29	524
Cycle	10	350
Cylinder	10	350
Damascus iron	8	427
Damascus twist	8	427
Damaskeening	8	429
Damper	4	171
	8	432
Dead-plate	4	171
Dead size	29	524
Dead water	4	171
Deal	8	537
Delta metal	8	629
Derrick	8	716
Design machine	9	318
Diamond drill	9	337
Die making	9	96
Die shoes	9	97
Dies	9	96
	29	697
bending	9	97
blanking	9	97
coining	9	99
double-action	9	98
drawing	9	97
embossing	9	99
forging	9	99
hot work	9	97
multiple	9	99
push through	9	98
redrawing	9	99
shear	9	97
single action	9	98
triple action	9	98
Differential	10	350
gear	9	106
Digester	9	108
Disentegrator	9	166
Dished	15	100
Diving bell	9	203
Dividing engine	9	198
Dolly	4	171
Double-ended boiler	4	171
Dow turbine	27	172
Drag	11	543
Drain pipe	9	297
Draw filing	29	524
Drawing	11	543
board	9	319
down	29	524
in	29	524
on	29	524
mechanical	9	314
of temper	11	543
Dredge	9	323
dipper	9	324
grab	9	324
hydraulic	9	324
ladder	9	324

General — cont'd	Vol.	Page
Dredge, scouring	9	325
universal	9	324
Dredging	9	325
Drifting	29	524
Drilling	9	336
machines	9	336
Drill presses	9	336
Drills	9	336
	18	697
diamond	9	337
electric	10	103
hand	9	336
power	9	336
rock	9	337
	23	594
twist	26	697
Driving	10	350
fit	29	524
home	29	524
Drop forging	9	340
	11	543
	18	54
Drop hammers	18	698
Drying machinery	9	366
Dry steam	4	171
Ductilimeter	9	381
Ductility	9	381
Duriron	9	426
Duty	10	350
Dynamics of machinery	9	455
Dynamometer	9	461
Ear	29	524
Eccentric	10	350
Economizer	4	171
Efficiency	10	350
engineering	9	714
Electrical terms	10	165
Electric alternating current machinery	10	90
Electric batteries	10	94
Electric blue-print making	10	98
Electric clocks	7	119
Electric condenser	10	98
Electric drill	10	103
Electric energy, transmission of	10	137
Electric escapement	10	103
Electric furnaces	10	106
Electric heater	10	110
Electric machine	10	114
Electric motor	10	116
Electric power	22	479
Electric welding	10	147
Elevator, grain	18	110
Elevators. See **Building and Construction.**		
Embossing	10	275
Emery wheels	26	694
Enchasing	10	315
Energetics	10	327
Energy	10	350
Engine	10	338
aeroplane	1	192
air	1	288
	10	339
automobile	2	656
beam	10	339
blowing	4	119
compound	10	339
condensing	10	338
Corliss	10	339
Cornish	10	339
direct-acting	10	338
dividing	9	198
double-acting	10	338
expansion working	10	338
gas	10	339
high-speed	10	338
horizontal	10	339
hot air	10	339

General — cont'd	Vol.	Page
hydraulic	10	340
	14	540
	29	25
inclined	10	339
cylinder	10	339
indirect-acting	10	338
internal combustion	15	224
	22	483
double-acting	15	231
fuels	15	238
single-acting	15	231
starting	15	238
inverted cylinder	10	339
locomotive	10	339
low speed	10	338
marine	10	339
miscellaneous	10	338
natural gas	12	306
non-condensing	10	338
non-expansive working	10	338
oil	10	339
oscillating	10	339
portable	10	339
rotary steam	23	713
simple	10	339
single-acting	10	338
starters	10	345
stationary	10	339
steam	10	338
	25	543
superheating	10	340
testing of	10	340
thermo-dynamic	26	527
traction	26	745
trunk	10	339
vertical	10	339
Engineering	10	346
efficiency	9	714
mechanical	18	498
terms	10	349
Engraving, machine	18	53
Erecting	29	524
Epicycloidal wheel	10	419
Escapement	10	490
Evaporative value	4	171
Excavator	10	618
Expanding	4	171
Expansion	10	350
hoop	4	171
Fagoting	11	543
Fans	11	11
Farrier	11	49
Farriery	11	49
Feeder	4	171
	11	94
Feeding	10	350
	11	543
Feed pump	11	92
Feed-water heaters	11	92
Female	29	524
Ferromagnetism	11	142
File-making	11	206
Files	11	206
	26	693
Fin	29	524
Finger	29	524
Firearms	2	279
Fire-bars	4	171
Fire-box	4	172
Fire-brick	11	234
Fire tube boiler	4	172
Firing	4	172
machines	11	257
Fitter	29	524
Fittings	4	172
Fixed centre	29	524
Fixing	11	305
Flame	11	329
plates	4	172
Flanging	4	172

General — cont'd	Vol.	Page
Flash boiler	4	172
Flask	11	543
Flexure	11	351
Float	4	172
Floor rammer	11	543
Flue plates	4	172
Flue surface	4	172
Flues	4	172
	10	350
Flume	11	402
Flush	29	524
Fluting machine	11	405
Flux	11	405
Fluxes	11	543
Flying machine	11	408
Fly-wheel	9	458
	10	350
Following joints	4	172
Foot-pound	11	455
Force	10	350
de Cheval	11	463
Forge	11	487
	11	543
shop	4	524
terms	11	542
Forging	11	487
drop	9	340
machine	11	487
	18	53
	18	55
Forming	29	524
machines	11	491
Founding	11	541
	11	544
loam molding	11	541
sand molding	11	541
Foundry practice	11	544
Foundry terms	11	542
Freezing mixture	12	53
Freight cars	5	580
French polishing	12	73
Fretting	29	524
Friction	12	101
Frosting	29	524
Fuel. See **Fuels and Illuminants.**		
Full	29	525
Fullering	4	172
Furnace	12	180
arc	10	107
blast	4	64
commercial	10	108
electric	10	106
electrolytic	10	107
incandescent	10	108
reverberatory	23	445
Furrowing	4	172
Fusible alloy	12	202
Fusible metal	12	202
Gaggers	11	543
Galvanized iron	12	254
Ganister	12	274
Gas. See **Fuels and Illuminants.**		
Gas-air	1	288
Gasoline	12	329
Gate	11	543
Gauges	12	339
	15	209
	26	696
Gear	29	525
differential	9	106
Joy's	27	654
wheels	12	350
Gearing-wheel	29	248
Gears	12	350
bevel	12	350
chain	12	350
helical	12	350
spiral	12	350
spur	12	350

General — cont'd	Vol.	Page
Gears, worm	12	350
	29	558
screw	29	558
Generators	12	378
German silver	12	500
Gilding	12	651
Gin	12	658
Glazing	29	525
Gold	13	8
Gold-beaters' skin	13	11
Gold-beating	13	11
Goldsmithing	13	34
Governor	13	98
Graining	13	113
Graphite	13	151
Grate	4	172
Grinding	13	478
machinery	8	258
Grinders	13	697
Grinding-in	29	525
Grindstones	1	49
	26	694
Gripe	13	480
Grooving	4	172
Gross section	4	172
Gumming	29	525
Gusset	4	172
stay	4	172
Hacking	29	525
Hack-saws	26	697
Hammers	13	664
	26	695
drop	18	698
Hand drills	9	336
Hand holes	4	172
Hardening	11	544
Hard water	4	172
Heater, electric	10	110
Heaters, feed water	11	92
Heating surface	4	172
Hero's fountain	12	143
Hitching	29	524
Hogging	4	172
Holes	4	172
Honeycombing	4	172
Hooks, clip	7	116
Horizontal boiler	4	172
Horse power	10	351
Hydrants, compression	27	661
gate	27	660
Hydraulic crane	14	539
Hydraulic engine	14	540
	29	25
Hydraulic lift	29	24
Hydraulic machinery	14	547
Hydraulic power	22	482
Hydraulic press	14	547
Hydraulic ram	14	547
	29	25
Hydraulic transmission	14	548
Hydrostatic press	14	585
Ignition systems	15	237
Inclination	4	172
Inclined plane	14	740
Incrustation	4	172
Indicator	15	64
Indicators	26	696
Induction coil	15	77
Ingot	10	351
Injection	4	172
Injector	15	135
Inlaying	15	140
Interchangeable parts	15	207
assembling	15	210
Interchangeable system	10	351
Internal combustion engine	15	224
	22	483
Inventions	15	281
Iridium	15	324
Iron	15	361

General — cont'd	Vol.	Page
cast, malleable	5	714
chilled	6	511
chromic	6	632
corrugated	8	21
Damascus	8	427
galvanized	12	254
manufacture. See Iron and Steel.		
melting	11	547
Jack	15	572
Jacking-up	29	525
Jag	29	525
Japanning	15	747
Joinery	16	188
Jointing	29	525
Josephinite	16	213
Jumping-up	29	525
Keelsons	4	172
Kerf	29	525
Kinematics of machinery	16	421
Kink	29	525
Kit	16	463
Knocking	29	525
Knotting	29	525
Lacquering	16	636
Laminated plates	4	172
Lap	10	351
	27	654
	29	525
circle	27	654
minus	27	654
outside	27	655
steam	27	655
Lapping	29	525
Lathes	18	696
Lathe work	29	525
Laundry machinery	17	105
Lead	17	171
antimony	1	31
Leakage	4	172
Level	17	327
Lever	17	328
Lift, hydraulic	29	24
Lifting	11	544
Lixiviation	17	545
Loam work	11	544
Lock	17	559
combination	17	560
cylinder	17	560
dial	17	560
lever tumbler	17	560
master-keyed	17	560
pin tumbler	17	560
time	17	560
warded	17	560
Yale	17	560
Locomotive	17	565
compound	17	576
geared	17	577
principal parts of	17	577
types of	17	568
Longitudinal seams	4	172
Loom	17	649
Lubricants	17	713
See also Oils and Petroleum.		
Machine design	9	318
Machine, electric	10	114
engraving	18	53
forging	18	53
	18	55
tool	10	351
Machinery, arrastra	8	263
brick-making	4	491
castings	11	544
clay working	7	71
coal mining	7	151
cotton	8	77
crushing	8	258
drying	9	366
dynamics of	9	455

General — cont'd	Vol.	Page
electric alternating current	10	90
grinding	8	258
hydraulic	14	547
kinematics of	16	421
laundry	17	105
manufacturing	18	58
metal working	18	696
milling	19	187
mining	19	187
pumps and pumping	23	4
railway	23	162
refrigerating	23	312
rock excavating	23	595
Machines, blowing	4	119
centrifugal	6	214
channeling	23	60
firing	11	257
fluting	11	405
flying	11	408
forging	11	487
forming	11	491
milling	18	697
mule	19	553
numbering	20	486
rolling	18	698
ruling	23	764
slivering	25	98
talking	26	225
testing	25	729
	26	454
upsetting	18	55
washing	17	105
Machining	29	525
Magneting	29	525
Male	29	525
Mallet	18	167
Mandrel, or Mandril	29	525
Mangle	18	212
Manhole	4	172
Marine boiler	4	172
Marker out	29	525
Match-plate	11	544
Materials, strength of	25	728
Mechanical drawing	9	314
Mechanical engineering	18	498
Mechanical movements, powers and appliances	18	502
Mechanical sizing	18	508
Mechanical terms	18	508
Mechanics	18	509
applied	2	90
institutes	18	524
stage	26	502
Melting point	18	609
Metallurgy	18	699
Metals	18	703
anti-friction	1	31
bluing of	4	130
fusible	12	202
Metal, spinning	20	525
work	18	696
working machinery	18	696
Metate	18	711
Micrometer	19	33
Mill	19	113
Milling	29	525
machines	18	697
machinery	19	187
Millstone	19	129
Mining machinery	19	187
Mitre	29	525
Mold-boards	11	544
Molding	11	545
bedding-in	11	546
bench	11	545
floor	11	545
loam	11	547
sand	11	544
tools	11	544

General — cont'd	Vol.	Page
Molds, dry sand	11	546
skin dried	11	546
Momentum	19	333
Monkey-wrench	26	697
Mortise	29	525
Motor	19	514
electric	10	116
gravity	29	24
impulse	29	24
induction	12	382
pressure	29	24
solar	25	234
truck	19	517
water	29	24
wave	29	116
Mudhole	4	172
Mule machine	19	553
Multitubular boiler	4	172
Mushroom strainer	27	654
Nails	19	682
Natural gas engine	12	306
Needle	20	39
Nickel	20	321
steel	20	322
Nicking	29	525
Nitric acid	1	91
Noria	20	403
Nowel	11	544
Numbering machine	20	486
Nut	20	508
lock	20	509
Odd sides	11	544
Oil	20	624
Caiaba	5	152
See also **Oils and Petroleum.**		
Oilstones	1	49
	26	694
Oil whale	29	234
Opening-out	29	525
Oscillation	10	351
Out and out	29	525
Oven	21	57
Overall	29	525
Overhauling	29	525
Overheating	4	172
Overpressure	4	172
Paint	21	107
Panel	21	243
Parting	11	544
Parts, interchangeable	15	207
Passenger cars	5	579
Patch	4	172
Pattern	10	351
work	29	525
Pendulum	7	429
	21	502
Pening	29	525
Perpetual motion	21	604
Petroleum. See **Oils and Petroleum.**		
Pewter	21	699
Phosphor-bronze	21	793
Pile-driver	22	84
Pincers	26	692
Pinchbeck	22	93
Pipe	10	351
cast iron	22	107
connections	29	525
couplings	22	108
drain	9	297
manufacture of	22	107
wrought iron	22	107
Piston	22	119
Pitch	22	120
Pitting	4	172
Plane, inclined	14	740
Planers	18	698
Planing	29	525
Planishing	29	525
Plaster of Paris	22	224

General — cont'd	Vol.	Page
Plate	4	172
furnace	4	172
Platiniridium	22	229
Platinum	22	229
Play	29	525
Plug	27	655
cock	27	655
Plumb	29	525
Plumbing and steam fitting	22	256
Plumbing, autogenous	2	641
Ply	29	525
Pneumatic buffer	22	265
Pneumatic tools	22	265
Pneumatic tubes	22	266
Pole-axe	22	300
Polishing and polishing materials	22	308
Polishing, French	12	73
Pouring	11	544
Power	10	351
	22	478
compressed air	22	480
distribution of	22	479
drills	9	336
electric	22	479
house	22	486
automatic stations	22	490
design	22	487
equipment	22	486
fuel	22	486
location	22	486
substations	22	492
hydraulic	22	482
stations, gas engine	22	484
subdivided	22	478
transmission of	22	482
	22	494
transmission, chain drive	22	495
friction gearing	22	495
link work	22	495
rope and cable drive	22	495
shaftings	22	494
wheel gearing	22	495
utilization of	22	478
water	22	479
	29	26
Press fit	29	525
Press, hydraulic	14	547
hydrostatic	14	585
Presses	18	698
Pressure	4	172
Prime mover	10	351
Print	11	544
Prising	29	525
Pulley	22	795
Pumice	1	49
Pumps	14	552
and pumping machinery	23	4
air	1	289
air-lift	23	3
compressed air	23	1
displacement	23	1
feed	11	92
pneumatic	23	1
power driven	23	1
vacuum	27	638
Punches	18	697
Punching	29	525
bear	4	172
Purifying apparatus	23	28
Pyrography	23	44
Quoin	23	100
Racing	10	351
Radial turbine	27	170
Radius bar	23	130
Radius rod	23	130

General — cont'd	Vol.	Page
Railway shops and machinery	23	162
Raised work	29	525
Raising	29	525
Ram, hydraulic	14	547
	29	25
Rapping	11	544
Reamers	26	697
Reaming	10	351
	29	525
Rebound checks	23	265
Reciprocating balance	9	457
Red-lead	29	525
Reddle	29	525
Reel	23	296
Refrigeration and refrigerating machinery	23	312
Resistance, electrical	23	412
Return flues	4	172
Return tubular boiler	4	172
Reverberatory furnace	23	445
Reversing shaft	27	655
Ribbed tubes	4	172
Riddle	11	544
Ring seams	4	172
Rings	4	172
Riser	11	544
Rivet	10	351
	29	525
Riveters	18	697
Riveting	29	525
Rock drills	9	337
and rock drilling	23	594
Rock-excavating machinery	23	595
Rolling	10	351
machines	18	698
mills	23	636
Rotary steam engine	23	713
Rotating balance	9	455
Roughing	29	526
down	29	526
Rule measurements	29	526
Ruling machines	23	764
Running-out	29	526
Rusting	29	526
Safety valve	24	103
	27	655
Salinometer	4	172
Salting	4	173
Sand-blast	24	270
Sand wheel	24	252
Saturated steam	4	171
	4	173
Saws	18	698
and sawing	24	334
hack	24	337
	26	697
Scaling	4	173
	29	526
Screw	24	450
Archimedes	2	169
endless	10	320
gears	29	558
perpetual	10	320
threads	26	697
Scribing	29	526
Scum cock	4	173
Seat	27	655
Seating	27	655
Sectional boiler	4	173
Self-starters	10	345
Set work	29	526
Shadoof	24	637
Shaft-reversing	27	655
Shaper	10	351
Shears	18	697
Sheers	24	677
Shell	27	655
Shock absorbers	24	739
Shrinking-on	29	526

General — cont'd	Vol.	Page
Shutting	29	526
Sidewalk traveling	27	20
Silent chain	24	810
Silver	25	12
Siphon	25	44
Sizing, mechanical	18	508
Slack-fit	29	526
Sleeping cars	5	579
Slide principle	29	526
Sliding fit	29	526
Slip	25	98
Slippage	25	98
Slivering machine	25	98
Snatch block	25	145
Solar motor	25	234
Solder	25	287
Soldering	29	526
autogenous	29	523
brass	4	444
Soot door	4	173
Special service cars	5	580
Spelter	25	389
Spiegeleisen	25	410
Spindle	10	351
Spinning	10	351
	29	526
Spring	25	452
Springs, vehicle	27	720
Sprocket	25	460
chains	25	460
Sprue	11	544
Stage mechanics	26	502
Stamping	10	351
Stand-pipe	25	478
Starters, engine	10	345
self	10	345
Stays	4	173
Steam	25	540
carriages	25	553
chest	27	655
energy of	25	542
engine	25	543
essential parts of	25	551
rotary	23	713
Engineering, Bureau of	25	553
jacket	25	553
lap	27	655
room	4	173
turbine	22	485
	27	170
valve	27	655
vehicles	25	553
Steel. See Iron and Steel.		
Steel alloys	6	404
	25	791
Steel, bronze	4	586
cables, galvanized	29	415
castings	25	584
hawsers, galvanized	29	415
tubing	25	603
wire and nail-working	25	605
wool	25	607
Stellite	25	613
Stencils	25	615
Stenciling	25	615
Stoking	10	351
Stone, Arkansas	2	261
Stop cock	27	655
Street railway cars	5	581
Strength of materials	10	351
	25	728
Stuffing	10	351
box	25	754
Sulphuric acid	1	91
	6	404
Swage block	26	106
Swaging	29	526
Sweating	29	526

General — cont'd	Vol.	Page
on	29	526
Synchronizer	26	170
Synmotor	26	747
Tackle	26	204
Taking-up	29	526
Talking machine	26	225
Taps	26	697
Tempering	10	351
	11	544
	26	405
Template	10	351
Tesla turbine	27	173
Testing	4	173
	10	351
machines	25	729
	26	454
Thermo-dynamic engine	26	527
Thread	10	351
Through tubes	4	173
Tide-mill	26	611
Tie bolts	4	173
Tin	26	638
Tire	26	644
Tombac	26	682
Tooling	29	526
Tools	26	690
pneumatic	22	265
Traction engine	26	745
Tractor	26	746
automobile	26	746
caterpillar	26	747
military	26	747
Train	10	351
Transfer of heat	4	173
Transformers	12	382
Transmission	10	351
hydraulic	14	549
Traveling sidewalk	27	20
Trial and error	29	526
Trying-up	29	526
Truck, motor	19	517
T-square	26	195
Tubal Cain	27	119
Tube plates	4	173
Tubes, pneumatic	22	266
Tubing, steel	25	603
Tubular boilers	4	173
Tungsten	27	144
Turbine	10	351
	27	169
axial	27	170
combined	27	170
Dow	27	172
high and low pressure	27	170
radial	27	170
steam	10	340
	22	485
	27	170
impulse	27	170
Tesla	27	173
water	27	169
wheel	14	551
Turkey oil stone	27	199
Turkey stone	27	199
Turning	29	526
Twist, Damascus	8	427
drill	26	697
Upsetting machines	18	55
Uphand or uphand sledge	29	526
Uptake	4	173
Vacuum	27	635
pumps	27	638
Valve, Allen	27	653
angle	27	653
annular	27	653
back cut-off	27	653
back-pressure	27	653
balanced	27	653
ball	27	653

General — cont'd	Vol.	Page
blow-off	27	653
blow-through	27	654
bonneted safety	27	654
box	27	655
treble	27	655
triple	27	654
bridle	27	655
brine	27	654
bucket	27	654
butterfly	27	654
cage	27	654
casing	27	655
chamber	27	655
change	27	654
check	27	654
circle	27	655
circular	27	654
cock	27	655
common slide	27	654
conical	27	654
Corliss	27	654
corner	27	653
Cornish	27	654
Cowburn	27	654
cross	27	654
cut-off	27	654
cock, cylinder	27	654
cylinder escape	27	654
D	27	654
dead-load safety	27	654
delivery	27	654
diagram	27	655
disc	27	654
discharge	27	654
double-beat	27	654
double disc	27	654
equilibrium	27	654
slide	27	654
escape	27	654
exhaust relief	27	654
expansion	27	654
face	27	655
flap	27	654
foot	27	654
gear	27	655
governor	27	654
globe	27	654
gridiron	27	654
grouped safety	27	654
head	27	654
ignition	27	654
injection	27	654
inlet	27	654
junction	27	654
Kingstone	27	654
lead of a	27	654
lift	27	654
lock-up safety	27	654
mitre	27	654
mushroom	27	654
open safety	27	654
piston	27	655
plate	27	655
poppet	27	655
pot	27	655
lid	27	655
priming	27	655
puppet	27	655
reducing	27	655
reflux	27	655
regulator	27	655
relief	27	655
retaining	27	655
return	27	655
reversing	27	655
ring	27	655
rod	27	655
gland	27	656
rotating	27	655
round body	27	655
safety	27	655

General — cont'd	Vol.	Page
Valve, sand	27	655
screw-down	27	655
sector	27	656
side-disc	27	655
side-discharge	27	655
slide	10	339
	27	655
snifting	27	655
spindle	27	655
spiral winged	27	655
spring	27	656
spring-balance	27	655
spring safety	27	655
square-body	27	655
starting	27	655
steam	27	655
stem	27	656
stop	27	655
straight-way	27	655
suction	27	655
wheel	27	656
wing	27	656
yoke	27	656
terms	27	658
throttle	27	655
Valves	27	656
air	27	659
gate	27	658
glove	27	658
setting of	27	655
Varnish	27	690
Vehicle springs	27	720

General — cont'd	Vol.	Page
Veneers and veneering	27	726
Vent	4	173
Venting	11	544
Vernier	28	33
Vertical boiler	4	173
Vises	26	692
	28	183
Volute wheel	28	183
Vulcanization	28	195
Washing machines	17	105
Watchmaking	29	7
Water balance	29	16
Water bridge	4	173
Water motor	29	24
Water power	22	479
	29	26
Water-tube boiler	4	173
Water turbine	27	169
Water-way	27	656
Water wheel	29	65
Waterworks	29	102
Wave motor	29	116
Wedge	29	153
Weigh-shaft	27	656
Welding	29	177
electric	10	147
gas (oxy-acetylene)	29	177
development of oxy-acetylene process	29	177
Wells and well sinking	29	187
Whale oil	29	234

General — cont'd	Vol.	Page
Wheel and axle	29	248
Wheel, contrate	10	697
crown	10	697
face	10	697
gear	12	351
gearing	29	248
impulse or pelton	14	551
turbine	14	551
volute	28	183
water	29	65
Whetstones	1	49
	29	254
White metal	29	272
Windlass	29	380
Chinese	6	579
Windmill	29	380
Wire and wire drawing	29	410
Wire, manufacture of	29	407
rope	29	414
Wood's metal	12	202
Work	10	351
Workshop terms	29	522
Worm gears	29	558
Wrought iron pipe	22	107
Zinc	29	710
aluminum	1	427
annealing	1	717
See also Building and Construction; Engineering — Electrical, Hydraulic and Mechanical.		

FUELS AND ILLUMINANTS

General

	Vol.	Page
Acetylene	17	472
domestic and commercial uses	17	473
Albert coal	1	367
Albertite	1	337
Alcohol	1	345
	12	146
	15	242
ethyl	1	346
methyl	1	347
wood	1	347
Backlash	15	98
Balk	15	98
Band	15	99
Battery	15	99
Benching	15	99
Benzine	3	531
Benzol	12	145
Boghead coal	4	154
Bone	15	99
Briquettes	4	544
Charcoal	6	303
	12	145
	14	24
	29	479
Coal	7	143
Albert	1	337

General — cont'd	Vol.	Page
anthracite	2	18
	7	145
	12	143
trade sizes of	7	165
bituminous	7	145
	7	163
	12	143
boghead	4	154
brown	7	145
cannel	7	145
	12	144
fields of the world	7	145
haulage of	7	157
lands	7	148
mine disasters	19	152
mining	7	149
mining machinery	7	151
oil	7	157
production of Alabama	1	298
production of Canada	5	441
production, Germany	12	592
production of Ireland	13	278
production of Latin America	17	45

General — cont'd	Vol.	Page
production of Oklahoma	20	636
production of Pennsylvania	21	520
production of Russia	24	46
production of Scotland	13	278
	24	431
production of South America	17	45
production of Wales	13	278
soft	7	145
varieties of	7	145
volume of gas in	12	326
washing	7	163
Coke	7	228
	12	144
	12	318
bee-hive oven	7	230
chemical and physical properties	7	229
condensing plant	7	231
consumption	7	232
discovery and history of	7	228
handling	7	231

General — cont'd	Vol.	Page
manufacture, economical and commercial considerations of	7	230
methods of manufacture	7	229
production	7	232
production of Alabama	1	299
Coke oven, by-products	7	231
Coking coals	7	232
Electric gas lighting	10	110
Electric heat	10	169
Electric heater	10	110
Electric lamp, incandescent	10	112
Tungsten	10	113
Electric light	10	169
Electric lighting	10	110
Electric storage battery	10	121
Electricity	10	168
generation of	10	168
history and progress of	10	171
uses of	10	168
Flame	11	329
Fuel economizers	11	98
	11	94
Fuel feed	2	645
Fuel, general description of	12	143
Fuel in electrical power production	22	486
Fuel pump	15	243
Fuels	12	142
	15	238
comparative heating values of	12	142
gaseous	12	146
	15	238
kinds of	12	142
liquid	12	145
	15	240
liquid, atomization methods	15	240
methods of firing	12	142
solid	12	143
tar	12	145

General — cont'd	Vol.	Page
tests on	12	147
Gas, anthracite and bituminous compared	12	146
city	15	238
coal	7	148
	12	146
coke oven	15	240
for power plants, quality of	12	319
illuminating	12	146
	17	475
illuminating and producer, compared	12	146
illumination	12	308
lighting	12	311
natural	12	146
	12	302
	15	238
natural, calorific value	12	306
natural, comparison of principal types	12	303
natural, consumption	12	305
natural, costs	12	305
natural, early history	12	307
natural, geological horizons	12	304
natural, illuminating properties	12	306
natural, liquid	12	307
natural, occurrence of	12	304
natural, original pressure	12	304
natural, production in the United States	12	305
natural, products of combustion	12	306
natural, reserves of	12	304
natural, uses	12	307
natural, wells and conditions of strata	12	303

General — cont'd	Vol.	Page
Pintsch	17	473
producer	12	146
	12	314
	15	238
producer, advantage of using	12	319
producer, generation of	12	314
producer, suction system	12	318
producer, systems	12	317
water	12	146
	15	105
	29	19
Gases, comparison of, on coal basis	12	146
Gasoline	12	329
casing-head	21	684
Gasometer	12	330
Kerosene	16	380
	21	683
Lignite	7	145
	12	144
production, Germany	12	592
Liquid fuels	12	145
Methylated spirit	18	728
Naphtha	19	691
	21	680
Natural gas	12	146
Oil	21	680
coal	7	157
crude	15	240
	21	680
	21	681
Oils, fuel	12	145
Peat	12	144
	21	460
Petroleum	21	680
as a fuel	21	694
Pintsch system	22	104
Stone coal	25	684
Thermal units	12	144
Torbanite	4	154
Water gas	29	19
Whale oil	29	234
Wood	12	144
	29	475
charcoal	29	479

FURS AND FUR-BEARING ANIMALS

General	Vol.	Page
Alaska, fur seals	1	312
land furs	1	312
American Fur Company	2	448
Astrakhan	2	451
Badger	3	34
Bear, black	3	384
brown	3	385
grizzly	3	385
white	3	384
Bears	3	383
Beaver	3	397
Cacomistle	5	130
Carrot	15	99

General — cont'd	Vol.	Page
Cat	6	24
Chinchilla, or Eriomys	6	548
Civet cat	5	130
Coney	7	486
Coyote	8	142
Coypu	8	142
Ermine	10	480
Fisher	11	282
Fitchew	22	300
Fox	11	565
blue	11	565
	12	176

General — cont'd	Vol.	Page
cross	11	565
	12	176
gray	11	565
	12	176
kit	11	565
	12	176
patch	12	176
red	11	565
	12	176
silver	11	565
	12	176
white Arctic	11	565
	12	176

General — cont'd	Vol.	Page
Fur-bearing animals, cultivation of, or fur farming	12	175
Fur, breeding for	18	333
Fur factory	18	755
Fur seal	12	176
	24	482
Fur seal industry	24	483
Fur trade	12	176
Furs	12	198
Furs, dressing and dyeing	12	198
Genet	12	387
Hare, Polar	13	708
Hudson's Bay Company	14	472
Karakul	12	176
Leopard	17	303
Lynx	17	779
Mackinaw Company	2	448
Marmot	18	306
Marten	18	332
American pine	18	332
beech	18	332
Pennant's	21	517
pine	12	175
	18	332
Siberian sable	18	332
stone	18	332
sweet	18	332
Mink	12	175
	19	195
Missouri Fur Company	12	177
Mole	19	311
Muskrat	19	652
Nutria	8	142
Ocelot	20	569
Opossum	20	714
Otter	21	48
American	21	48
European	21	48
Pekan	11	282
	12	175
	18	332
Pelagic sealing	21	480
Pennant's Marten	21	517
Polecat	22	300
Rabbit	23	104
Raccoon	12	175
	23	107
Rocky Mountain Fur Company	12	177
Russian Fur Company	2	448
Sable	24	84
Russian	24	85
Sealing, pelagic	21	480
Seals and sealing	24	479
Skunk	25	79
black-and-white	12	175
	25	79
striped	12	175
	25	79
Squirrel	25	466
gray	25	466
Tayra	26	304
Wolf, gray	29	438
prairie	8	142
Wolverine	29	445

GEMS, JEWELRY AND PRECIOUS METALS

Gems	Vol.	Page
Agate	1	232
Alexandrite	1	374
	22	522
Amazonstone	1	470
Amber	1	471
	22	525
Amethyst	1	570
synthetic	17	484
Aquamarine	2	105
	22	522
Benitoite	22	525
Beryl	3	583
	22	522
Bloodstone	4	115
	14	79
	14	88
Californite	22	526
Cameo	5	260
Carcanet	5	596
Carnelian	7	709
Cat's-eye	6	108
Chalchihuitl	27	207
Chrysoberyl	6	648
	22	522
Chrysolite	6	648
Coral	7	676
Cornelian	7	709
Cross-stone	25	538
Diadem	9	55
Diamond	9	61
	22	521
cutting trade	9	62
fields	9	63
importations	9	67
industry	9	66
mines of Brazil	17	46
necklace	9	68
Dudley diamond	9	383
Emerald	10	286
	22	522
synthetic	17	484
Fairy-stone	25	538
Feldspar, phenomenal	22	525
Garnet	22	523
Bohemian	23	45
Gems, engraving of	12	363
mythology of	12	367
phenomenal	22	522
Girasol	12	665
	20	698
Glyptics	12	734
Goldsmithing	13	34
Hall marks	13	645
Heliotrope	14	79
Hematite	14	88
Hiddenite	22	521
Hyacinth	22	522
Hyalite	14	534
Hydrophane	14	582
Intaglio	15	202
Ivories	15	563
Jade	15	594
	22	524
Jasper	15	751
Jet	16	46
Kunzite	22	521
Lapis-lazuli	16	742
	24	525
Magic stone	14	582
Malachite	18	158
	22	525
Moissanite	22	521
Moonstone	19	427
Morganite	22	522
Nephrite	22	524
Olivine	20	667
	22	524
Opal	20	698
	22	523
common	20	698
fire	20	698
	22	523
mother-of-pearl	20	698
semi	20	698
wood	20	698
Pearl	21	454
Peridot	21	585
	22	524
Precious stones	22	521
artificial	6	406
Pyrope	23	45
Quartz	22	523
	23	64
Rhodolite	23	477
Rubellite	23	747
Ruby	22	521
	23	750
balas	3	71
synthetic	17	484
Sapphire	22	521
	24	291
synthetic	17	484
Sardonyx	24	302
Scarabs	24	354
Sphene	22	521
Spodumene	22	521
Staurolite	25	538
Staurotide	25	538
Sunstone	26	38
Tiffanyite	22	521
Tiger-eye	26	623

Gems — cont'd	Vol.	Page
Titanite	22	521
Topaz	22	522
	26	699
white	22	522
yellow	22	522
Topazolite	26	700
Tourmaline	22	522
	26	719
Turquoise	22	524
	27	207
Uvarovite	27	627
Zircon	22	522
Jewelry		
Beads	3	375
Bracelet	4	380
Brooch	4	589
Buckle	4	668
Ear-rings	9	484
Jewelry	16	49
trade	16	56
Rings	23	529
ecclesiastical	23	530
gimmel	23	531
hololith	23	531
La Semaine	23	531
memorial	23	530
occult	23	530
Snuff boxes	25	153
Watchmaking, modern	29	7
Precious metals		
Gold	13	8
assay of	13	10

Precious metals — cont'd	Vol.	Page
beating	13	11
beater's skin	13	11
chemical properties of	13	9
coinage in the United States	13	13
conspiracy	13	14
dredging	13	14
electroplating	10	211
in the United States	13	11
metallurgy	13	14
Mining. See **Mining and Mineral Resources.**		
origin and occurrence of	13	10
production	13	23
production of Russia	24	46
production of the world	7	371
recovery, electrolytic process	10	187
refining	13	11
smithing	13	34
smithing, history of	13	36
standard	13	22
world distribution of	13	10
Platinum	22	229
black	22	231
Precious metals	22	521
Proustite	22	697
Ruby silver	22	697

Precious metals — cont'd	Vol.	Page
Silver	25	12
chemical properties of	25	12
electroplating	10	210
German	12	501
ores	25	12
ores, metallurgy of	25	13
physical properties of	25	12
producing districts	25	13
production of the world	7	371
sycee	26	155
uses of	25	14
Sterling	25	629
Plated Ware		
Filigree work	11	208
Plate and plated ware	22	228
Repoussé	23	385
Silver plate	25	15
Silverware	25	15
antiques	25	16
colonial	25	19
domestic plate	25	17
"Hall" and other marks	25	18
municipal plate	25	17
products	25	17
Sheffield plate	24	678
	25	18

GEOLOGY

General	Vol.	Page
As	1	2
Acadialite	1	66
Aciculite	1	91
Acid waters	19	161
Acmite	1	94
Adamant	1	117
Adamantine spar	1	117
Adamantoid	1	117
Adamite	1	118
Adelsberg	1	135
Adinole	1	138
Adipite	1	138
Adipocerite	1	138
Adirondacks	1	139
	19	532
Adobe	1	147
	25	225
Aerinite	1	179
Agalmatolite	1	229
Agaphite	1	230
Age	1	234
Age of the earth	12	434
Agglomerate	1	236
Allan Craigs	1	274

General — cont'd	Vol.	Page
Alabama, geology of	1	297
	1	298
Alabaster	1	307
Alaska, geology of	1	311
Algonkian Age	5	247
Algonkian system	1	397
Alkaline waters	19	162
Alleghany Mountains	1	410
Alleghany Plateau	1	410
Alluvial cones and fans	1	428
Alluvion	1	428
Alluvium	1	428
Alps	1	439
American springs	19	162
Amianthus	1	572
Amorphism	1	594
Amygdaloids	1	597
Andalusite	1	657
Andes	1	662
Andesine	1	667
Andesite	1	667
Andradite	1	669
Animal life	5	594
Antarctic ice	2	13

General — cont'd	Vol.	Page
Antediluvian	2	15
Antiparos	6	142
Apennines	2	54
Appalachian Mountains	2	73
Appalachian region	2	72
	5	289
Aqueous rocks	2	112
Araucariales	2	136
Archean	2	166
Archæan Period	2	151
Arctic region	2	188
Arenaceous rocks	2	190
Argentina, geology of	2	199
Argillaceous rocks	2	222
Arizona, geology of	2	251
Colorado Plateau	11	63
Arkansas, geology of	2	256
stone	2	261
Arkose	2	261
Assimilation	2	423
Atlas	2	506
Atmosphere	2	507
	9	489
Ausable Chasm	2	558

General — cont'd	Vol.	Page
Fur-bearing animals, cultivation of, or fur farming	12	175
Fur, breeding for	18	333
Fur factory	13	755
Fur seal	12	176
	24	482
Fur seal industry	24	483
Fur trade	12	176
Furs	12	198
Furs, dressing and dyeing	12	198
Genet	12	387
Hare, Polar	13	708
Hudson's Bay Company	14	472
Karakul	12	176
Leopard	17	303
Lynx	17	779
Mackinaw Company	2	448
Marmot	18	306
Marten	18	332
American pine	18	332
beech	18	332

General — cont'd	Vol.	Page
Pennant's	21	517
pine	12	175
	18	332
Siberian sable	18	332
stone	18	332
sweet	18	332
Mink	12	175
	19	195
Missouri Fur Company	12	177
Mole	19	311
Muskrat	19	652
Nutria	8	142
Ocelot	20	569
Opossum	20	714
Otter	21	48
American	21	48
European	21	48
Pekan	11	282
	12	175
	18	332
Pelagic sealing	21	480
Pennant's Marten	21	517
Polecat	22	300

General — cont'd	Vol.	Page
Rabbit	23	104
Raccoon	12	175
	23	107
Rocky Mountain Fur Company	12	177
Russian Fur Company	2	448
Sable	24	84
Russian	24	85
Sealing, pelagic	21	480
Seals and sealing	24	479
Skunk	25	79
black-and-white	12	175
	25	79
striped	12	175
	25	79
Squirrel	25	466
gray	25	466
Tayra	26	304
Wolf, gray	29	438
prairie	8	142
Wolverine	29	445

GEMS, JEWELRY AND PRECIOUS METALS

Gems	Vol.	Page
Agate	1	232
Alexandrite	1	374
	22	522
Amazonstone	1	470
Amber	1	471
	22	525
Amethyst	1	570
synthetic	17	484
Aquamarine	2	105
	22	522
Benitoite	22	525
Beryl	3	583
	22	522
Bloodstone	4	115
	14	79
	14	88
Californite	22	526
Cameo	5	260
Carcanet	5	596
Carnelian	7	709
Cat's-eye	6	108
Chalchihuiti	27	207
Chrysoberyl	6	648
	22	522
Chrysolite	6	648
Coral	7	676
Cornelian	7	709
Cross-stone	25	538
Diadem	9	55
Diamond	9	61
	22	521
cutting trade	9	62
fields	9	63
importations	9	67
industry	9	66
mines of Brazil	17	46
necklace	9	68

Gems — cont'd	Vol.	Page
Dudley diamond	9	383
Emerald	10	286
	22	522
synthetic	17	484
Fairy-stone	25	538
Feldspar, phenomenal	22	525
Garnet	22	523
Bohemian	23	45
Gems, engraving of	12	363
mythology of	12	367
phenomenal	22	522
Girasol	12	665
	20	698
Glyptics	12	734
Goldsmithing	18	34
Hall marks	13	645
Heliotrope	14	79
Hematite	14	88
Hiddenite	22	521
Hyacinth	22	522
Hyalite	14	534
Hydrophane	14	582
Intaglio	15	202
Ivories	15	563
Jade	15	594
	22	524
Jasper	15	751
Jet	16	46
Kunzite	22	521
Lapis-lazuli	16	742
	24	525
Magic stone	14	582
Malachite	18	158
	22	525
Moissanite	22	521
Moonstone	19	427
Morganite	22	522

Gems — cont'd	Vol.	Page
Nephrite	22	524
Olivine	20	667
	22	524
Opal	20	698
	22	523
common	20	698
fire	20	698
	22	523
mother-of-pearl	20	698
semi	20	698
wood	20	698
Pearl	21	454
Peridot	21	585
	22	524
Precious stones	22	521
artificial	6	406
Pyrope	23	45
Quartz	22	523
	23	64
Rhodolite	23	477
Rubellite	23	747
Ruby	22	521
	23	750
balas	3	71
synthetic	17	484
Sapphire	22	521
	24	291
synthetic	17	484
Sardonyx	24	302
Scarabs	24	354
Sphene	22	521
Spodumene	22	521
Staurolite	25	538
Staurotide	25	538
Sunstone	26	38
Tiffanyite	22	521
Tiger-eye	26	623

Gems — cont'd	Vol.	Page
Titanite	22	521
Topaz	22	522
	26	699
white	22	522
yellow	22	522
Topazolite	26	700
Tourmaline	22	522
	26	719
Turquoise	22	524
	27	207
Uvarovite	27	627
Zircon	22	522
Jewelry		
Beads	3	375
Bracelet	4	380
Brooch	4	589
Buckle	4	668
Ear-rings	9	484
Jewelry	16	49
trade	16	56
Rings	23	529
ecclesiastical	23	530
gimmel	23	531
hololith	23	531
La Semaine	23	531
memorial	23	530
occult	23	530
Snuff boxes	25	153
Watchmaking, modern	29	7
Precious metals		
Gold	13	8
assay of	13	10

Precious metals — cont'd	Vol.	Page
beating	13	11
beater's skin	13	11
chemical properties of	13	9
coinage in the United States	13	13
conspiracy	13	14
dredging	13	14
electroplating	10	211
in the United States	13	11
metallurgy	13	14
Mining. See Mining and Mineral Resources.		
origin and occurrence of	13	10
production	13	23
production of Russia	24	46
production of the world	7	371
recovery, electrolytic process	10	187
refining	13	11
smithing	13	34
smithing, history of	13	36
standard	13	22
world distribution of	13	10
Platinum	22	229
black	22	231
Precious metals	22	521
Proustite	22	697
Ruby silver	22	697

Precious metals — cont'd	Vol.	Page
Silver	25	12
chemical properties of	25	12
electroplating	10	210
German	12	501
ores	25	12
ores, metallurgy of	25	13
physical properties of	25	12
producing districts	25	13
production of the world	7	371
sycee	26	155
uses of	25	14
Sterling	25	629
Plated Ware		
Filigree work	11	208
Plate and plated ware	22	228
Repoussé	23	385
Silver plate	25	15
Silverware	25	15
antiques	25	16
colonial	25	19
domestic plate	25	17
"Hall" and other marks	25	18
municipal plate	25	17
products	25	17
Sheffield plate	24	678
	25	18

GEOLOGY

General	Vol.	Page
Aa	1	2
Acadialite	1	66
Aciculite	1	91
Acid waters	19	161
Acmite	1	94
Adamant	1	117
Adamantine spar	1	117
Adamantoid	1	117
Adamite	1	118
Adelsberg	1	135
Adinole	1	139
Adipite	1	138
Adipocerite	1	138
Adirondacks	1	139
	19	532
Adobe	1	147
	25	225
Aerinite	1	179
Agalmatolite	1	229
Agaphite	1	230
Age	1	234
Age of the earth	12	434
Agglomerate	1	236
Alas Craigs	1	274

General — cont'd	Vol.	Page
Alabama, geology of	1	297
	1	298
Alabaster	1	307
Alaska, geology of	1	311
Algonkian Age	5	247
Algonkian system	1	397
Alkaline waters	19	162
Alleghany Mountains	1	410
Alleghany Plateau	1	410
Alluvial cones and fans	1	428
Alluvion	1	428
Alluvium	1	428
Alps	1	439
American springs	19	162
Amianthus	1	572
Amorphism	1	584
Amygdaloids	1	597
Andalusite	1	657
Andes	1	662
Andesine	1	667
Andesite	1	667
Andradite	1	669
Animal life	5	594
Antarctic ice	2	13

General — cont'd	Vol.	Page
Antediluvian	2	15
Antiparos	6	142
Apennines	2	54
Appalachian Mountains	2	73
Appalachian region	2	72
	5	289
Aqueous rocks	2	112
Araucariales	2	136
Archean	2	166
Archæan Period	2	151
Arctic region	2	188
Arenaceous rocks	2	190
Argentina, geology of	2	199
Argillaceous rocks	2	222
Arizona, geology of	2	251
Colorado Plateau	11	63
Arkansas, geology of	2	256
stone	2	261
Arkose	2	261
Assimilation	2	423
Atlas	2	506
Atmosphere	2	507
	9	489
Ausable Chasm	2	558

General — cont'd	Vol.	Page
Australia, geology of...	2	564
Australian Alps.....	2	620
Avalanche	2	671
Azoic	2	689
Babingtonite	3	6
Bad Lands.....	3	31
	25	298
Bala beds.....	3	64
Banks	3	150
Baradla ("steaming place")	1	267
Barren measures.....	3	277
Bars	3	226
Basalt	3	301
Batholite	3	337
Batholith	3	337
Batture	20	153
Baumann's cavern.....	3	350
Beaches, raised.....	3	372
Bear island.....	3	379
Bed and Bedding plane.	3	411
Bembridge beds.....	3	497
Berea grit.....	3	539
Bergschrund	3	547
Beryllium	3	584
Bielshöhle	3	690
Big Bone cave.....	6	142
Big Bone Lick.....	3	693
Big Horn Mountains...	3	693
Biliner stein.....	3	702
Bird's-eye limestone....	3	736
Bitter waters.....	19	162
Black earth.....	4	33
Black Forest.....	4	34
Black Hills.....	4	35
Black Rock Desert.....	4	38
	22	242
Blowhole	25	448
Bluffs	4	130
Bog	4	152
Bog-butter	4	153
Bog-oak	4	153
Bogdoola	4	154
Bolsons	4	196
Bone-caves	4	213
Bonnet-flamand	20	271
Bonneville, Lake.....	4	221
Boulder	4	328
Bowlders	4	364
Braided stream.....	4	395
Breccia	4	455
Bristol	4	548
British Columbia, geology of.....	4	554
Bronze and Iron Ages..	4	587
	23	109
Brownstone	4	622
Buckleya distichophilla.	4	669
Bullers of Buchan.....	5	15
Bunter sandstone.....	5	26
Burlington limestone...	5	51
Burnt stones.....	5	63
Butte	5	84
Buxton	5	93
Caen-stone	5	138
Calamine	5	155
Calcaire grossier.....	5	158
Calcareous	5	158
Calciferous	5	158
Calcilintytes	25	242
Calc-tufa	5	158
California, geology of..	5	202
Calumet conglomerate..	7	657
Cambrian	25	10
system	5	247
	21	189
Canadian series.....	5	480
Canadian shield.....	1	484
Canyon	5	539
de Chelly.....	5	539
Diablo	5	539
Cape Breton.....	5	542

General — cont'd	Vol.	Page
Caradoc sandstone.....	5	583
Carbonaceous argillutyte	27	620
Carbonado	5	592
Carboniferous	5	593
	7	144
	11	276
Carboniferous Age.....	11	277
Carboniferous in North America, palæography of	5	594
Carboniferous in other continents	5	594
Carboniferous, life of...	5	594
Carboniferous limestone.	5	595
Carboniferous Period...	21	191
Carcharias littoralis....	24	252
Carolina ridge.....	5	647
Carpathian Mountains...	5	651
Carrizo Mountain.....	5	672
Cataclysm	6	30
Cataracts	6	45
Catlinite	6	104
Catskill group.....	6	108
Cauda-Galli Grit.....	6	129
Cave	6	142
Cavern	6	142
Celestite	6	169
Cenozoic	12	434
era	6	192
Centrosphere	9	491
Chalk	6	253
	23	609
red	6	253
Chalybeate waters.....	19	163
Champlain stage.....	6	275
Chattahoochee stage.....	6	354
Chazy stage.....	6	369
Chemung series.....	6	410
Chernozem	6	415
Chesapeake stage.....	6	423
Chester stage.....	6	428
Chihuahuan Desert.....	9	2
Chlorospinel	25	413
Chuar	6	650
Cimolian, Earth, or Cimolite	6	678
Cincinnati anticline.....	6	684
City of Rocks.....	14	655
Cirque	6	697
Claiborne stage.....	7	29
Clausthal	7	64
Clastic	7	61
Clay	7	69
iron-stone	7	71
Cleavage	11	415
	25	83
Cliff	7	100
Clingman's dome.....	7	113
Clinton stage.....	7	116
Coastal plain.....	7	171
Coast range.....	7	170
Collophanite	7	272
Cologne earth.....	7	275
Colorado, geology of...	7	319
Colorado Plateau.....	7	323
Colorado stage.....	7	324
Colossal Cavern, The....	7	330
Columbian formation....	7	338
Columbia Plateau.....	7	336
Columnar jointing, and columnar basalts.....	7	346
Comanchean	8	183
Como stage.....	7	425
Comstock Lode.....	7	445
Continental Divide, The.	9	198
Concretions	7	475
Cone	7	485
Conglomerate, or pudding stone.....	7	500
Contact metamorphism..	12	432
Continental deposits....	26	447
	29	630

General — cont'd	Vol.	Page
Cooks Peak.....	7	652
Coral and coral islands.	7	676
Cordilleran system.....	23	614
Cordilleras	7	687
Cornwall, geology of....	7	715
Cornelian, or Carnelian.	7	709
Corrosion	8	18
Cosmic geology.....	12	422
Cosmical geology, or cosmogony	8	32
Cottian Alps.....	1	440
Crater	8	162
Crater mound, Arizona..	8	162
Cretacean epoch.....	2	199
Cretaceous	8	183
Age	7	145
Period	11	277
Crevasse.....	8	189
Crevasses	12	671
Crevasse waters.....	23	548
Crop	8	227
Crust of the earth.....	8	263
Cuevas de sojotón.....	24	218
Current	8	313
Czirknitzer See.....	29	715
Dæmonelix	8	390
Dakota stage.....	8	412
Death Valley.....	8	541
	9	3
Debacle	8	542
Deflation	8	587
Denudation	10	483
Deposit	8	703
Desert	9	1
Desert, The Great American	9	2
Detritus	9	28
Despoblado	9	15
Devil's varnish.....	9	7
Devil's Corkscrew.....	8	390
Devil's Paint Pot.....	29	631
Devil's Punch Bowl.....	9	40
Devil's Slide.....	9	40
Devil's Tower.....	9	40
Devonian	9	41
	25	10
Age	11	276
Period	21	191
Diablerets, Les.....	9	55
Diamond Hill.....	5	93
Diaspore	9	73
Diastrophism	9	73
	12	431
Differential weathering..	9	106
Dike	9	119
Diluvium	9	122
Dip	9	138
Discordance.....	9	154
Divide, The Great.....	9	198
Dolomite	9	238
Dolomitization	9	238
Downs	9	288
Dreikanter	9	325
Drift	9	335
Driftless area.....	9	336
Drift sand.....	9	336
Drum	9	352
Drumlin	9	352
	19	437
Druse	9	355
Dumortierite	9	399
Dune	9	403
Dynamical geology.....	12	425
	22	43
Earth	2	508
	9	488
as a time keeper....	9	493
internal heat of.....	9	498
mass of.....	9	492
rigidity of.....	9	492

General — cont'd	Vol.	Page
Earthquakes	5	201
	9	494
	12	481
instruments for recording	9	496
Earth's three envelopes	9	488
	23	602
Earth's water supply	9	490
	29	41
Earthy waters	19	163
Eclogite	9	554
Eklogite	9	554
Ellipsoidal structure in igneous rocks	10	255
Eocene	10	407
	11	277
Eolian deposits	10	408
Eolithic relics	25	680
Eozoic era	10	410
Eozoön	10	410
Epeirogenic movements	10	411
	12	431
Epidote	10	420
Epigene	10	420
Epsomite	10	439
Erratic blocks	4	328
	10	484
Era	10	465
Erratics	10	484
Erosion	10	483
valleys	27	651
Escarpment	10	490
Esker	10	498
Esopus shale	6	129
Essonite, or hessonite	10	518
Estuary	10	526
Estuarine deposits	10	526
Evolution of the earth's surface	21	173
Exfoliation	10	668
Explosion craters	10	651
Extrusive phenomena	12	482
Faluns	11	2
Fan coral	11	9
Fault	11	63
Fault Mountains	19	582
Faults of natural streams	23	547
Feeder	11	94
Feldspathoids	23	602
Fen	11	112
Figuline	11	203
Fingals cave	6	142
	11	221
Fire clays	7	69
	11	234
Fissility	11	297
Fissure	11	297
springs	25	459
Flagstone	11	328
Floating islands	11	358
Flood plain	11	360
Floods	11	360
	14	545
river	23	547
Floor	11	361
Florida, geology of	11	368
Florissant beds	11	380
Folded Mountains	19	581
Folds	11	414
Foliation	11	415
Forests, petrified	11	486
Formation	11	490
France, geology of	11	573
French chalk	12	64
Frozen wells	12	127
Fulgurite	12	153
Fumarole	12	159
Gabbro	12	212
Galena	12	235
Gangue	12	274
Ganister	12	274

General — cont'd	Vol.	Page
Gases in rocks	12	328
Gault	12	341
Gavarine	6	46
Geode	12	404
Geodesy	12	404
	26	94
Geognosy	12	407
	12	422
	12	425
Geologic age of a formation	21	174
Geological history	27	728
Geological survey	26	100
Geological surveys of Brazil	13	748
Geological survey, United States	12	418
Geologic record of land	21	174
Geologic time	12	434
	21	174
Geology	12	421
	23	81
cosmic	12	422
	12	424
development of, as a science	12	423
dynamical	12	422
	12	425
economic	12	422
historical	14	205
metamorphic	12	423
mining	12	423
structure	12	422
	12	432
Geology and minerals	24	768
Geomorphology	12	472
Geosyncline	12	491
Geotectonics	12	432
Geyserite	12	681
Geysers	12	681
	29	681
mud	29	681
Giant's Causeway	12	637
Glacial drift	9	385
Glacial Period	12	670
	21	181
	25	680
Glacier	12	671
ice	14	626
Glaciers	6	269
	12	429
distribution of	12	672
Glacio-fluvial deposits	12	676
Gneiss	12	736
Gold Mountain	1	89
Gorgonidæ	11	9
Gouge	13	82
Graben	13	101
	14	417
Gradation	13	103
Graian Alps	1	440
Grand Cañon	29	630
Arizona	13	122
	13	123
Grand Falls cataract	13	124
Grand Wash cliffs	13	130
Grand Wash and Hurricane faults	11	63
Granite	13	133
Graveyard of the iceberg	14	627
Graywacke	13	168
Great Basin	13	169
	22	242
Great Basin Desert	9	2
Great Ice Age	21	181
Great Rift Valley	13	360
Great Salt Lake	13	360
Greenockite	13	437
Greenstone	13	439
Greenstone series	16	335
Grotto del Cane	6	142

General — cont'd	Vol.	Page
Ground water	13	493
	29	44
	29	79
Gumbo soil	25	225
Gyp	13	592
Hamilton series	13	662
Hamilton stage	13	662
Harmotome	13	719
Hart Mountain Overthrust of Wyoming	11	63
Hell's Half Acre	29	631
Henry Mountains	14	108
Holy Mount	4	154
Hornblende	14	384
schists	24	375
Hot Springs National Park	14	435
Hot springs, Yellowstone	29	631
Huronian series	14	522
Huttonian theory	14	531
Hydrosphere	12	425
	22	43
Hypogene	14	608
Ice Age	12	670
	22	245
Iceberg	14	626
Ice fields	14	626
Igneous rocks	14	672
Immigrations, animal and vegetal	14	715
India, geology of	15	2
Insolation	15	166
Intrusive phenomena	12	432
Inversion	15	286
Iron meteorites	18	713
Jacob's Cavern	15	592
Joints	16	190
Jura	11	277
Jurassic Period	16	254
Kaietur Fall	6	45
	16	277
Kame	16	287
Kames	16	288
Kaolin	7	69
	16	307
Karroo beds	16	311
Keewatin	16	334
Kettle Hole	16	384
Keuper	16	384
Keweenawan series	16	385
Keys	16	388
Kirkdale Cave	6	142
	16	458
Laccolith	16	626
Lacustrine deposits	16	640
Lakes	12	430
	16	656
Lamination	11	415
	16	677
Land bridges across the oceans	16	692
Landslide	16	712
Landslip	16	712
Laramie stage	16	746
Latticed drainage	27	38
Laurentian mountains	17	110
Laurentian Plateau	5	289
Lemnian earth	17	280
Laurentian system	17	110
Lava and lava flows	17	114
Lepontine Alps	1	440
Levant	17	326
Lewis overthrust	17	336
Lewis overthrust of Montana	11	63
Lias	17	344
Limestone	17	441
Lithosphere	9	491
	12	425
	17	517
	22	43

General — cont'd	Vol.	Page
Llanos	17	548
	22	147
Lode	17	589
Loess	17	592
Logan, Mount	17	596
Loire	17	613
London clay	17	633
Louisiana, geology of	17	680
Lower carboniferous	5	594
Lower Helderberg	17	703
Luray Cave	17	749
Madstone	18	109
Maestricht beds	18	111
Magdalene Grotto	1	135
Magma	18	122
Magmatic differentiation	18	122
Magmatic segregation	18	122
Magmatic stoping	18	122
Magnesian limestone	18	124
Malaspina glacier	18	161
	19	437
Maltesite	1	657
Maltha	18	171
Mammoth Cave	6	142
	18	180
Manacle rocks	18	194
Mantle rock	18	238
Manzanos	18	251
Marble	18	264
canyon	13	122
Marcellus stage	18	267
Maritime Alps	1	440
Marl	18	301
Matterhorn	19	532
Mayon	18	469
Meanders	18	478
Measurement of streams	18	481
Medicine Bow Mountains	18	583
Medina series	18	588
Menhirs	18	630
Mésa	18	684
Mica schist	19	9
Mesozoic	12	434
Mesozoic Era	18	690
era, life of	18	690
Meramec spring	18	653
Mesa Verde National Park	18	684
Metamorphic geology	12	423
	18	704
Metamorphic rocks	18	704
Metamorphism	18	705
Metasomatic Replacement	18	711
Metasomatism	18	710
Meteorites	18	712
Michigan, geology of	19	19
Microline	23	602
Microlite	19	33
Mild thermal waters	19	163
Milne seismograph	19	131
Mineral waters	19	160
	19	161
Minette	19	170
Mining geology	19	182
Minnesota, geology of	19	201
Miocene	11	277
	19	216
Period	2	199
Mississippian series	5	594
Mogollon Plateau	19	291
Mohave Desert	19	307
Momotombo	19	334
Mont Blanc	19	379
Monte Rose	19	398
Monte Somma	28	46
Moraines	12	672
	19	437
Mosioatunya	6	45
Moulin	19	520
Mountain limestone	5	595
	17	441
Mountains	19	531

General — cont'd	Vol.	Page
Mount Chaucer	19	532
Mount Sainthill	19	532
Mud cracks	19	547
Mud lakes	4	38
Muir glacier of Alaska	12	671
Murchisonite	19	604
Muriated waters	19	163
Mur De Glace	18	653
Muschelkalk	19	614
Natural arch	19	768
Natural bridge	19	768
Natural levees	19	768
Naulette	19	781
Navajo church	19	784
Navajo Mountain	19	785
Nebular hypothesis	12	424
	20	35
Neocene	20	73
Neocomian	20	73
Neogene	20	73
Neozoic	20	76
Neptunian theory	20	78
Névé	12	673
	20	110
Newark series	20	260
Newfoundland, Bank of	20	271
Niagara, description and geography	20	295
Niagara series	20	298
Niobrara stage	20	366
Nitrification	20	374
Noric Alps	1	441
North America, geology of	1	484
	27	309
Northern drift	20	428
Nickojack Cave	6	142
Nunatak	20	499
Old Man of the Mountain	20	655
Old red sandstone	20	656
Old Stone Periods	2	153
Oligocene	20	661
Period	2	199
Onondaga Cavern	6	142
Onyx	20	696
marble	20	696
Oolite	20	696
Ooze	20	697
Ordovician	11	276
	20	771
	25	10
Oriental Alabaster	20	696
Original crust	23	603
Origin of faults of natural streams	23	547
Orogenic movements	12	431
Orthoclase	21	12
	23	602
Osars	10	498
Ottokar Grotto	1	135
Outcrop	21	54
Outlier	21	55
Owl Creek Mountains	21	66
Oxford clay	21	73
Pahoehoe	21	104
Painted Desert	21	111
Palæogeography of the Carboniferous in North America	5	594
Palæolithic Age	2	153
Paleocene	21	170
Paleogeography	21	173
of the Mesozoic in the United States	18	690
Paleophysiography of North America	21	196
Paleozoic	12	434
Era	21	195
Palisades, The	21	206
Parian	18	264
Paris Basin	21	320
Peak Cavern	6	142

General — cont'd	Vol.	Page
Pegmatite	21	472
Pelée, Mont	21	482
Peneplain	5	289
	21	506
Pennine Alps	1	440
Pennsylvania (coal measures)	5	594
Pennsylvania series	21	539
Period	21	587
Permian	7	144
	11	277
	21	606
time	21	192
Petrifaction	21	677
Phlegræan Plain	21	784
Physiography	12	422
	22	42
Pichincha	22	65
Pictured rocks	22	71
Piedmont Plain	22	73
Pike's Peak	19	532
	22	83
Pitchstone	22	121
Plain	22	146
Planetesimal hypothesis	12	424
Plants and animals as geological agents	12	430
Playa	22	242
Pleistocene	18	188
division	25	680
Epoch	14	397
	22	245
Pliocene	11	277
	22	250
Period	2	199
Poole's hole	5	93
Popocatepetl	22	363
Porphyry	7	632
	22	375
Portage group	22	388
Portugal, geology of	22	410
Post-pliocene	22	425
Post-tertiary periods	22	431
Pot-holes	22	438
Potomac formation	22	449
Pottsville conglomerate	22	459
Pre-Cambrian formation	22	517
Primary rocks	22	576
Prince Edward Island, geology of	22	581
Proterozoic	12	434
	22	679
Pseudomorph	22	728
Psilomelane	22	728
Psychozoic	22	745
Purbeck beds	23	24
Pyroclastic	23	43
Quartz	23	602
Quaternary	23	66
deposits	27	310
Era	25	689
Period	14	397
Quicksand	23	89
Rainbow arch	23	182
Rainier, Mount	23	193
Rain prints	23	181
Rain water	29	14
Recent Period	23	269
Recurrent river floods	23	547
Red beds	13	592
Regelation	12	671
Regolith	18	238
Regularity of river grades	23	548
Regur	23	326
Rejuvenation	23	336
Residual glaciers	12	673
Residual mountains	19	532
Rhætian Alps	1	441
Rhipidogorgia Flabellum	11	9
Ripple marks	23	536
River bank cutting	23	547

General — cont'd	Vol.	Page
River channel depths	23	547
River grades, regularity of	23	548
Rock cleavage	23	568
Rock gypsum	13	592
Rocking stones	23	600
Rocky Mountains	5	290
	19	532
	23	61
	23	614
Rukanfoss	6	46
Rumania, geology of	23	765
Run off	29	42
Russia, geology of	24	4
Saddle reefs	24	99
Saint Michael's Mount	24	155
Salina beds	13	592
Salina formation	24	184
	25	11
Salina stage	24	184
Saline waters	19	161
Sand	24	250
Sand pipe	24	251
Sandstone	2	190
	24	258
Sardinia, geology of	24	299
Schist	24	375
varieties	24	375
Schoharie grit	24	385
Schwartzite	24	410
Scotland, geology of	24	431
Seborucco	24	499
Seculéjo	6	46
Segregation	24	531
Seismograph	24	533
Seismology	24	533
Seismoscope	24	533
Serac	24	577
Serpentine	24	599
Serpentine Kames	10	498
Sevier	24	623
Shallow crossings	23	547
Shore line	24	745
Sienna earth	5	63
Siliceous sinter	12	631
Silurian	25	10
Age	11	276
Sink holes	25	40
Slab ice	14	626
Slate	25	83
Snow line	25	151
Soil	8	63
	25	225
of the prairies	22	505
weights of	25	228
Solfatara	25	240
Solid earth	29	43
South America, geology of	1	486
South Carolina, geology of	25	289
South Dakota, geology of	25	300
Spain, geology of	25	323
Spitzbergen, geology of	25	425
Spouting horns	25	448
Spring	25	451
	25	459
waters	29	14
Stalactite	25	472
Stalagmite	25	472
Steppes	25	622
Stony meteorites	18	713
Stream piracy	25	723
Striæ	25	733
Strike	9	138
Structural geology	12	422
	12	432
	25	742
Subsequent streams	25	775
Sulphurous waters	19	163
Superimposed drainage	26	39

General — cont'd	Vol.	Page
Surface	26	62
Sweden, geology of	26	115
Table-land	26	198
Table Mountain	18	684
Talus	26	231
Tennessee, geology of	26	417
Tequendama	6	45
Terraces	26	446
Terrestrial deposits	26	447
Tertiary	25	680
Epoch	2	199
Period	14	398
	26	450
Texas, geology of	26	460
Till	26	626
Tillites	21	171
	26	627
Topographical map of the United States	12	420
Trachyte	26	739
Travertine	27	21
Trellised drainage	27	38
Triassic	7	144
	11	277
	27	52
Triassic time	21	192
Tripoli	27	76
Tripolite	27	76
Tuff	27	131
Typical plagioclases	23	602
Umber	5	63
	27	267
Unconformity	27	271
Underground reservoirs of California	29	44
Underground temperatures	27	272
	27	273
Underground water	14	580
Uniformitarianism	27	283
United States, geology of	27	309
Unkar	27	582
Upper Carboniferous	5	594
Upper Helderberg group	27	585
Ural Mountains	27	588
Utah, geology of	27	612
Utica slate	27	620
Valleys	27	651
Valley trains	27	671
Vein	27	721
Vermont, geology of	28	18
Vesuvius	28	45
	28	171
Virginia, geology of	28	117
Volcano	28	171
Volcanic ash	25	225
Volcanic mountains	19	532
Volcanic neck	28	171
Volcanic plug	28	171
Volcanism	12	431
	28	171
Vug	28	195
Vugg	28	195
Vugh	28	195
Vulcanist	28	195
Vulcanology	28	195
Water	29	13
Water-bearing beds	14	580
Waterfall	29	69
Water plane	29	79
Waters, underground	14	580
	29	78
Wealden	29	124
Weathering	29	135
Weights of soil	25	228
Wells and well-sinking	29	187
Wenlock group	29	192
West Virginia, geology of	29	209
Weyer's Cave	29	229
Whin	29	256

General — cont'd	Vol.	Page
White Mountains	19	532
	29	272
White sands	29	273
Wind Cave National Park	29	378
Windkanter	9	325
Wyandotte Cave	29	579
Xenoliths	29	596
Yosemite Valley	29	646
Zambesi	6	45
	29	683
Zirknitz	29	715
Zirknitzer Zee	29	715
Zuni Salt Lake	29	739

Economic Geology

	Vol.	Page
Abrasives	1	49
Agaric mineral	1	231
Alum shale	1	458
Apatite	21	795
Asbestic	2	375
Asbestos	2	376
Bitumen	4	26
Brick clays	7	70
Calcium	5	1 9
Calcium phosphate	21	795
Calcium sulphide	13	592
Casing-head gasoline	21	684
Clay	7	69
Clay products	27	311
Coal	7	143
	27	310
anthracite	2	18
	12	143
bituminous	4	26
	12	143
cannel	12	144
Coal deposit	24	45
Coal fields, English	13	278
Coal. See also **Fuels and Illuminants.**		
Colorado oil production	21	687
Corundum	1	49
	8	28
	22	521
Crude oils	21	681
Crystalline quartz	1	49
Culm	8	296
Diamond	1	50
	9	61
Dicalcium phosphate	21	795
Economic geology	9	555
	12	422
Egyptianized clay	7	70
Emery	1	50
	10	292
	19	160
English coal fields	13	278
Fireclay	11	234
Flint clay	11	234
Fuller's earth	19	160
Garnet	1	49
Gas, natural	12	302
See also **Fuels and Illuminants.**		
Glass sand	12	710
	19	160
Glass sands, United States	12	703
Graphite	13	151
	19	160
Grindstones	1	49
	13	479
	19	160
Infusorial earth	15	127
Iron. See **Iron and Steel.**		
Kaolin	16	307
	23	503
Kentucky, oil and gas resources of	16	371
Louisiana oil fields	21	687

General — cont'd	Vol.	Page
Llanos	17	548
	22	147
Lode	17	589
Loess	17	592
Logan, Mount	17	596
Loire	17	613
London clay	17	633
Louisiana, geology of	17	680
Lower carboniferous	5	594
Lower Helderberg	17	703
Luray Cave	17	749
Madstone	18	109
Maestricht beds	18	111
Magdalene Grotto	1	135
Magma	18	122
Magmatic differentiation	18	122
Magmatic segregation	18	122
Magmatic stoping	18	122
Magnesian limestone	18	124
Malaspina glacier	18	161
	19	437
Maltesite	1	657
Maltha	18	171
Mammoth Cave	6	142
	18	180
Manacle rocks	18	194
Mantle rock	18	238
Manzanos	18	251
Marble	18	264
canyon	13	122
Marcellus stage	18	267
Maritime Alps	1	440
Marl	18	301
Matterhorn	19	532
Mayon	18	469
Meanders	18	478
Measurement of streams	18	481
Medicine Bow Mountains	18	583
Medina series	18	588
Menhirs	18	630
Mésa	18	684
Mica schist	19	9
Mesozoic	12	434
Mesozoic Era	18	690
era, life of	18	690
Meramec spring	18	653
Mesa Verde National Park	18	684
Metamorphic geology	12	423
	18	704
Metamorphic rocks	18	704
Metamorphism	18	705
Metasomatic Replacement	18	711
Metasomatism	18	710
Meteorites	18	712
Michigan, geology of	19	19
Microline	23	602
Microlite	19	33
Mild thermal waters	19	163
Milne seismograph	19	131
Mineral waters	19	160
	19	161
Minette	19	170
Mining geology	19	182
Minnesota, geology of	19	201
Miocene	11	277
	19	216
Period	2	199
Mississippian series	5	594
Mogollon Plateau	19	291
Mohave Desert	19	307
Momotombo	19	334
Mont Blanc	19	379
Monte Rose	19	398
Monte Somma	28	46
Moraines	12	672
	19	437
Mosioatunya	6	45
Moulin	19	520
Mountain limestone	5	595
	17	441
Mountains	19	531

General — cont'd	Vol.	Page
Mount Chaucer	19	532
Mount Sainthill	19	532
Mud cracks	19	547
Mud lakes	4	38
Muir glacier of Alaska	12	671
Murchisonite	19	604
Muriated waters	19	163
Mur De Glace	18	653
Muschelkalk	19	614
Natural arch	19	768
Natural bridge	19	768
Natural levees	19	768
Naulette	19	781
Navajo church	19	784
Navajo Mountain	19	785
Nebular hypothesis	12	424
	20	35
Neocene	20	73
Neocomian	20	73
Neogene	20	73
Neozoic	20	76
Neptunian theory	20	78
Névé	12	673
	20	110
Newark series	20	260
Newfoundland, Bank of	20	271
Niagara, description and geography	20	295
Niagara series	20	298
Niobrara stage	20	366
Nitrification	20	374
Noric Alps	1	441
North America, geology of	1	484
	27	309
Northern drift	20	428
Nickojack Cave	6	142
Nunatak	20	499
Old Man of the Mountain	20	655
Old red sandstone	20	656
Old Stone Periods	2	153
Oligocene	20	661
Period	2	199
Onondaga Cavern	6	142
Onyx	20	696
marble	20	696
Oolite	20	696
Ooze	20	697
Ordovician	11	276
	20	771
	25	10
Oriental Alabaster	20	696
Original crust	23	603
Origin of faults of natural streams	23	547
Orogenic movements	12	431
Orthoclase	21	12
	23	602
Osars	10	498
Ottokar Grotto	1	135
Outcrop	21	54
Outlier	21	55
Owl Creek Mountains	21	66
Oxford clay	21	73
Pahoehoe	21	104
Painted Desert	21	111
Palæogeography of the Carboniferous in North America	5	594
Palæolithic Age	2	153
Paleocene	21	170
Paleogeography	21	173
of the Mesozoic in the United States	18	690
Paleophysiography of North America	21	196
Paleozoic	12	434
Era	21	195
Palisades, The	21	206
Parian	18	264
Paris Basin	21	320
Peak Cavern	6	142

General — cont'd	Vol.	Page
Pegmatite	21	472
Pelée, Mont	21	482
Peneplain	5	289
	21	506
Pennine Alps	1	440
Pennsylvania (coal measures)	5	594
Pennsylvania series	21	539
Period	21	587
Permian	7	144
	11	277
	21	606
time	21	192
Petrifaction	21	677
Phlegræan Plain	21	784
Physiography	12	422
	22	42
Pichincha	22	65
Pictured rocks	22	71
Piedmont Plain	22	73
Pike's Peak	19	532
	22	83
Pitchstone	22	121
Plain	22	146
Planetesimal hypothesis	12	424
Plants and animals as geological agents	12	430
Playa	22	242
Pleistocene	18	188
division	25	680
Epoch	14	397
	22	245
Pliocene	11	277
	22	250
Period	2	199
Poole's hole	5	93
Popocatepetl	22	363
Porphyry	7	632
	22	375
Portage group	22	388
Portugal, geology of	22	410
Post-pliocene	22	425
Post-tertiary periods	22	431
Pot-holes	22	438
Potomac formation	22	449
Pottsville conglomerate	22	459
Pre-Cambrian formation	22	517
Primary rocks	22	576
Prince Edward Island, geology of	22	581
Proterozoic	12	434
	22	679
Pseudomorph	22	728
Psilomelane	22	728
Psychozoic	22	745
Purbeck beds	23	24
Pyroclastic	23	43
Quartz	23	602
Quaternary	23	66
deposits	27	310
Era	25	689
Period	14	397
Quicksand	23	89
Rainbow arch	23	182
Rainier, Mount	23	193
Rain prints	23	181
Rain water	29	14
Recent Period	23	269
Recurrent river floods	23	547
Red beds	13	592
Regelation	12	671
Regolith	18	238
Regularity of river grades	23	548
Regur	23	326
Rejuvenation	23	336
Residual glaciers	12	673
Residual mountains	19	532
Rhætian Alps	1	441
Rhipidogorgia Flabellum	11	9
Ripple marks	23	536
River bank cutting	23	547

General — cont'd	Vol.	Page
River channel depths	23	547
River grades, regularity of	23	548
Rock cleavage	23	593
Rock gypsum	13	592
Rocking stones	23	600
Rocky Mountains	5	290
	19	532
	23	61
	23	614
Ruikanfoss	6	46
Rumania, geology of	23	765
Run off	29	42
Russia, geology of	24	4
Saddle reefs	24	99
Saint Michael's Mount	24	155
Salina beds	13	592
Salina formation	24	184
	25	11
Salina stage	24	184
Saline waters	19	161
Sand	24	250
Sand pipe	24	251
Sandstone	2	190
	24	258
Sardinia, geology of	24	299
Schist	24	375
varieties	24	375
Schoharie grit	24	385
Schwartzite	24	410
Scotland, geology of	24	431
Seborucco	24	499
Seculéjo	6	46
Segregation	24	531
Seismograph	24	533
Seismology	24	533
Seismoscope	24	533
Serac	24	577
Serpentine	24	599
Serpentine Kames	10	498
Sevier	24	623
Shallow crossings	23	547
Shore line	24	745
Sienna earth	5	63
Siliceous sinter	12	631
Silurian	25	10
Age	11	276
Sink holes	25	40
Slab ice	14	626
Slate	25	83
Snow line	25	151
Soil	8	63
	25	225
of the prairies	22	505
weights of	25	228
Solfatara	25	240
Solid earth	29	43
South America, geology of	1	486
South Carolina, geology of	25	289
South Dakota, geology of	25	300
Spain, geology of	25	323
Spitzbergen, geology of	25	425
Spouting horns	25	448
Spring	25	451
	25	459
waters	29	14
Stalactite	25	472
Stalagmite	25	472
Steppes	25	622
Stony meteorites	18	713
Stream piracy	25	723
Striæ	25	733
Strike	9	138
Structural geology	12	422
	12	432
	25	742
Subsequent streams	25	775
Sulphurous waters	19	163
Superimposed drainage	26	39

General — cont'd	Vol.	Page
Surface	26	62
Sweden, geology of	26	115
Table-land	26	198
Table Mountain	18	684
Talus	26	231
Tennessee, geology of	26	417
Tequendama	6	45
Terraces	26	446
Terrestrial deposits	26	447
Tertiary	25	680
Epoch	2	199
Period	14	398
	26	450
Texas, geology of	26	460
Till	26	628
Tillites	21	171
	26	627
Topographical map of the United States	12	420
Trachyte	26	739
Travertine	27	21
Trellised drainage	27	38
Triassic	7	144
	11	277
	27	52
Triassic time	21	192
Tripoli	27	76
Tripolite	27	76
Tuff	27	131
Typical plagioclases	23	602
Umber	5	63
	27	267
Unconformity	27	271
Underground reservoirs of California	29	44
Underground temperatures	27	272
	27	273
Underground water	14	580
Uniformitarianism	27	283
United States, geology of	27	309
Unkar	27	582
Upper Carboniferous	5	594
Upper Helderberg group	27	585
Ural Mountains	27	588
Utah, geology of	27	612
Utica slate	27	620
Valleys	27	651
Valley trains	27	671
Vein	27	721
Vermont, geology of	28	18
Vesuvius	28	45
	28	171
Virginia, geology of	28	117
Volcano	28	171
Volcanic ash	25	225
Volcanic mountains	19	532
Volcanic neck	28	171
Volcanic plug	28	171
Volcanism	12	431
	28	171
Vug	28	195
Vugg	28	195
Vugh	28	195
Vulcanist	28	195
Vulcanology	28	195
Water	29	13
Water-bearing beds	14	580
Waterfall	29	69
Water plane	29	79
Waters, underground	14	580
	29	78
Wealden	29	124
Weathering	29	135
Weights of soil	25	228
Wells and well-sinking	29	187
Wenlock group	29	192
West Virginia, geology of	29	209
Weyer's Cave	29	229
Whin	29	256

General — cont'd	Vol.	Page
White Mountains	19	532
	29	272
White sands	29	273
Wind Cave National Park	29	378
Windkanter	9	325
Wyandotte Cave	29	579
Xenoliths	29	596
Yosemite Valley	29	646
Zambesi	6	45
	29	683
Zirknitz	29	715
Zirknitzer Zee	29	715
Zuni Salt Lake	29	739

Economic Geology

Abrasives	1	49
Agaric mineral	1	231
Alum shale	1	458
Apatite	21	795
Asbestic	2	375
Asbestos	2	376
Bitumen	4	26
Brick clays	7	70
Calcium	5	1 9
Calcium phosphate	21	795
Calcium sulphide	13	592
Casing-head gasoline	21	684
Clay	7	69
Clay products	27	311
Coal	7	143
	27	310
anthracite	2	18
	12	143
bituminous	4	26
	12	143
cannel	12	144
Coal deposit	24	45
Coal fields, English	13	278
Coal. See also Fuels and Illuminants.		
Colorado oil production	21	687
Corundum	1	49
	8	28
	22	521
Crude oils	21	681
Crystalline quartz	1	49
Culm	8	296
Diamond	1	50
	9	61
Dicalcium phosphate	21	795
Economic geology	9	555
	12	422
Egyptianized clay	7	70
Emery	1	50
	10	292
	19	160
English coal fields	13	278
Fireclay	11	234
Flint clay	11	234
Fuller's earth	19	160
Garnet	1	49
Gas, natural	12	302
See also Fuels and Illuminants.		
Glass sand	12	710
	19	160
Glass sands, United States	12	703
Graphite	13	151
	19	160
Grindstones	1	49
	13	479
	19	160
Infusorial earth	15	127
Iron. See Iron and Steel.		
Kaolin	16	307
	23	503
Kentucky, oil and gas resources of	16	371
Louisiana oil fields	21	687

Economic Geology—cont'd	Vol.	Page
Meerschaum	18	592
	22	109
Microcosmic Salt	21	795
Millstone grit	19	130
Millstones	19	160
Mineral paints	19	160
Mineral pitchblende	23	121
Monocalcium phosphate	21	795
Montana oil fields	21	687
Naphtha	19	691
	21	680
Natural gas	19	160
Oil and gas, United States	29	210
Oil fields, Russian	24	46
Oil, Mexico	18	746
Oil shale	20	630
Oils. See **Oils and Petroleum.**		
Oilstones	1	49
	20	632
Ozocerite	21	85
Peastone	22	118
Peat	19	160
	21	460
	23	609
Peat bogs	21	460
Petroleum	19	160
	21	680
	27	610
fields, Mexican	18	746
production	21	687
see also **Oils and Petroleum.**		
Phenols	21	681
Phosphate rock	19	160
Phosphatic fertilizers	21	795
Pisolite	22	118
Pitch blende	22	325
	23	125
	27	589
Pitch Lake of Trinidad	4	26
Plagioclase	22	140
Polishing slate	22	308
Potash	22	439
Potters' clay	7	70
Precious metals. See **Gems, Jewelry and Precious Metals.**		
Pumice	1	49
	22	800
Quarry materials	23	59
	27	311
Rocky Mountain oil field	21	687
Salt	24	197
Salt brine well	21	683
Salt deposits, origin of	24	199
Salt lick	24	205
Salton Sea	24	206
Scythestones	1	49
Secondary enrichment	24	515
Sicilian oil	21	682
Slate	23	59
	25	83
Stone, building	4	712
	19	161
coal	25	684
Structural geology	12	432
Superphosphate of lime	21	795
Supply of potash	22	443
Talc	23	603
Tallow, mineral	26	230
Texas oil fields	21	687
Torbanite	26	701
Trenton rock oil fields	21	686
Tripoli	1	49
	27	76
Turkey oilstone	27	199
Utah oil fields	21	687
Volcanism and ore deposits	12	432

Economic Geology—cont'd	Vol.	Page
Whetstones	1	49
	29	254
Wyoming oil fields	21	687
See under **Geology, General,** above; and also **Fuels and Illuminants; Gems, Jewelry and Precious Metals; Mineralogy; Mining and Mineral Resources; Oils and Petroleum.**		

Crystallography

Crystallography—cont'd	Vol.	Page
Absorption	1	55
Absorption and pleochroism	22	26
Adamantine spar	1	117
	8	28
Agate	1	232
	22	523
Alexandrite	1	374
	22	522
Allactite	1	408
Almandine	22	523
Amazon stone	1	470
Amber	1	471
	22	525
Amethyst	1	570
	17	484
Analyzer, The	22	28
Angle	1	683
Angle of Least Deviation	22	29
Antilogue pole and analogue pole	22	30
Aquamarine	2	105
	3	584
	22	522
Asparagus stone	2	403
Asymmetric system	2	485
Aventurine	22	525
Axis of symmetry	8	272
Becke's method	22	28
Benitoite	22	525
Beryl	3	583
	22	522
Biaxial crystals	8	272
	22	30
Birefringence	22	29
Bitter spar	4	25
Bohemian garnet	23	45
Bort	4	284
Bose's polariscope	22	30
Burnt stones	5	63
Cacholong	5	129
Cairngorm	5	148
Californite	22	526
Carbonado	5	592
Carbuncle	5	595
	22	523
Chalcedony	6	250
	22	523
Chemical crystallography	6	386
Chiastolite	6	436
Chile saltpetre, or cubic nitre	6	510
Chrome garnet	22	523
Chrysoberyl	6	648
	22	522
Chrysolite	6	648
	22	524
Chrysoprase	6	649
Cinnamon stone, or essonite	6	687
Cleavage	7	78
Compensator, function of the	22	29
Conductivity	22	30
of crystals, electric	22	30

Crystallography—cont'd	Vol.	Page
Corresponding radius vector of the ellipsoid	22	27
Corrosion	8	18
	22	25
Corundum	8	28
	22	521
Crossed Nicols	22	28
Crown of the moon	9	64
Cryolite	8	265
Crystal	8	267
Cullinan	9	65
drawing	8	277
faces and their symbols	8	273
finding the system of a	8	272
forms	8	273
growth	8	270
habit	8	275
isotropic (Isometric)	22	29
systems	8	273
Crystalline	8	271
Crystallization	19	166
fractional	11	569
Crystallo-chemical analysis	8	271
Crystallography	8	271
chemical	6	386
physical	22	25
Crystals, electrical properties of	22	30
Crystals, grouping of	8	275
imperfections of	8	275
magnetic properties of	22	30
optical classification of	22	26
optically anisotropic biaxial	22	26
	22	27
optically anisotropic uniaxial	22	26
optically isotropic	22	26
optical properties of	22	26
polarized properties of	22	28
projection of	8	276
thermal properties of	22	30
uniaxial	22	29
Darya-i-nûr	9	64
Demantoid	22	523
Determination of uniaxial or biaxial by interference figures	22	29
Determining extinction angles	22	29
Determining pleochroism	22	29
Diamond	5	545
	9	61
	22	521
blue	9	64
Braganza	9	65
Brilliant, A	9	62
Cullinan	9	65
Darya-n-nûr	9	64
Excelsior	9	65
Famous Star	9	63
Florentine	9	64
Great Mogul	9	64
Hope	9	65
	14	371
in the matrix	9	63
Jubilee	9	65
Pasha of Egypt	9	64
Pitt	9	64
Polar Star	9	64
Regent	9	65
Rose, A	9	62
Shah	9	65

Crystallography—cont'd	Vol.	Page
Table, A	9	62
Tiffany Yellow	9	65
Victoria	9	65
Diamonds, artificial, manufacture of	9	67
Dimorphism	9	123
Diopside	9	137
Dioptase	9	137
Efflorescence	9	720
Emerald	3	584
	10	286
	22	522
Enantiomorphism	6	388
Etch figures	22	25
Eutropic series	6	387
Expansion	22	30
Extinction	22	28
directions	22	29
Garnet	22	523
Gem collections	22	526
Gem tourmalines	26	720
Gem of light	9	64
Gems	22	521
Gliding	22	25
Great Mogul (diamond)	9	64
Green Jasper	15	751
	22	523
Heliotrope	14	79
Hexagonal system	8	274
Hiddenite	14	170
Homogeneous crystal structure	8	269
Hyacinth	22	522
Iceland spar	22	26
Indices, Miller	8	273
zonal and graphic determination of	8	276
Interfacial angles, law of constancy of	8	272
Interference colors	22	28
Isogyres	22	29
Isomerism, physical	6	387
	15	419
Isometric system	8	275
Isomorphism	15	421
Jade	15	594
	22	524
Jadeite	22	524
Jasper	15	751
Koh-i-nûr (diamond)	9	64
Labile crystallization	8	270
Labradorite	16	624
	22	525
Lapis-lazuli	16	742
	22	525
Law of simple mathematical ratio	8	272
Law of symmetry	8	272
Lesser Star of Africa (diamond)	9	65
Leucite	17	326
Macle	6	436
Malachite	18	158
	22	525
Measurement of crystal angles	8	276
Melanite	18	601
Mocha stone	1	232
Moissanite	22	521
Monoclinic sulphur	26	2
Monoclinic system	8	274
Moonstone	19	427
	22	525
Morganite	22	522
Morphotropic relations between Polymorpho	6	388
Moss agate	1	232
Nephrite	15	594
	22	525
Octahedrite	20	574
Oligoclase	20	662

Crystallography—cont'd	Vol.	Page
Olivine	21	667
	22	524
Opal	21	698
	22	523
fire	22	523
Optic axes	22	27
Optic axial angle	22	27
Orlov (diamond)	9	64
Orthorhombic system	8	274
Parting	22	25
Percussion figures	22	26
Peridot	21	585
	22	524
Phenomenal feldspars	22	525
Phenomenal gems	22	522
Piezoelectricity	22	30
Plane of symmetry	8	272
Pleochroism	22	26
Polariscope	22	295
Polarizer	22	28
Polarizing microscope	22	28
Polymorphism	6	387
Polymorphs, morphotropic relations between	6	388
Porter Rhodes	5	545
Positive ray surface	22	28
Precious stones	22	521
Pressure	22	26
Pyroelectricity	22	30
Pyrope	22	523
	23	45
Quartz	22	523
	23	64
Ray surface	22	26
	22	27
Red Jasper	22	523
Refraction	22	26
	23	316
determining indices of	22	28
determining the fact of single or double	22	28
double	22	26
	22	28
index of	22	26
principal indices of	22	28
single	22	28
Rhombic sulphur	26	2
Romé de l'Isle	8	267
Rubies	22	521
Ruby	23	750
silver	22	697
Sancy (diamond)	9	64
Sapphires	22	521
	24	291
Sard	24	297
Sardonyx	24	302
Satin spar	24	311
Spar	25	359
Spodumene	22	521
	25	427
Star sapphire	25	490
Star of South Africa (diamond)	9	65
Taj-e-mah (crown of the moon)	9	64
Test plates	22	29
Tetragonal system	8	274
Tiffanyite	22	521
	26	621
Tiger Eye	26	623
Titanite	22	521
	26	646
Topaz	22	522
	26	699
Tourmaline	22	522
	26	719
Transparent topaz	26	699
Triclinic system	8	273

Crystallography—cont'd	Vol.	Page
Turquoise	22	524
	26	207
Twin Colors	22	26
	22	29
Uralian emerald	22	523
Van der Kolk's methods	22	29
Weiss coefficients	8	273
X-ray way lengths	22	40
Zircon	22	522
	29	714
See also Gems, Jewelry and Precious Metals; Mineralogy.		

Petrology

Acid andesites	23	607
Acid division	23	606
Algonkian rocks	22	679
Andesites	23	607
Aphanatic rocks	23	605
Archean rocks	22	679
Brownstones	4	622
	27	53
Chemical precipitates	23	609
Cleavage of magmas	23	605
Clinkstone	21	792
Coherent rock masses	23	608
Consolidation of sediments	23	608
Contact metamorphism	18	705
	23	610
Cretaceous rocks	21	193
Crust of the earth	8	263
	23	602
Crystalline rocks	29	78
Devonian, marine	9	42
rocks	9	42
Diabase	9	54
	23	607
Diorite	9	137
	23	607
Dolerite	9	235
Dunites	9	405
	23	607
Dynamical geology	12	422
Earth, crust of	8	263
	23	602
Earth's elementary substances	23	602
Eolian rocks	23	609
Extrusive rocks	23	607
Flow-structure	23	605
Gabbros	12	214
	23	607
Glacial deposits	23	609
Gneisses	23	610
Granites	13	133
	23	606
Greensand	13	438
Greenstone	13	439
Hornblendites	23	607
Igneous rocks	23	604
	23	610
classification of	23	605
Limburgite	23	608
Limestone	17	59
	17	441
Lithology	12	422
	21	695
Lithosphere	17	517
Lolmites	23	59
Magmatic differentiation	18	122
	23	605
Magmatic segregation	18	122
	23	605
Marble	18	264
	23	59
Mechanical sediments of terrigenous origin	23	609
Metamorphic rocks	23	610

Petrology — cont'd	Vol.	Page
Metamorphic varieties	23	611
Metamorphism of sediments, the	23	610
Modern conception of rock magmas	23	604
New red sandstone	20	160
Old red sandstone	9	42
	20	656
	24	258
Pegmatite	21	472
	23	606
Peridotites	21	585
	23	607
Perlite	23	606
Petrography	12	422
	21	680
Petrologic factor of rocks	21	174
Petrology	12	422
	21	172
	21	695
Petrotome	21	696
Phonolite	21	792
	23	607
Plutonic rocks	22	261
Porphyritic rocks	23	608
Portland stone	22	400
Potsdam sandstone	22	450
Precipitations from aqueous solutions	23	604
Pyroxenites	23	607
Quartz	23	64
Quartzarite	23	65
Quartzite	23	65
Quartz monzonite	23	65
Quartz porphyry	23	65
Red sandstone	23	284
Regional metamorphism	23	610
Removal of rock waste	23	608
Rhyolite	23	480
	23	606
Rock disintegration	23	608
Rock families	23	606
basic division	23	607
Rock formers	23	602
Rocks	23	601
Algonkian	22	679
Aphanatic	23	605
Archean	22	679
classified	23	604
cretaceous	8	183
	21	193
Crystalline	8	271
	29	78
Devonian	9	42
Eolian	23	609
extrusive	23	607
igneous	14	672
	23	604
	23	610
metamorphic	18	705
	23	610
mineralogical composition	23	606
of aqueous origin	23	608
petrologic factor of	21	174
plutonic	22	261
porphyritic	23	608
rotten	29	78
science of	23	602
secondary	24	515
sedimentary	23	608
	24	524
serpentine	24	599
texture	23	605
	23	606
trap	27	15
volcanic	28	171
vitreous	28	155
Rotten rock	29	78
Rottenstone	23	718

Petrology — cont'd	Vol.	Page
Sandstones	23	59
	24	258
Sandstone deposits	24	258
Schists	23	611
	24	375
Science of rocks	23	602
Secondary rocks	24	515
Sedimentary rocks	23	608
	24	524
Sediments of organic origin	23	609
Series	24	596
Serpentine rocks	24	599
Shale	24	654
Spaltung	23	605
Splitting of magmas	23	605
Syenite	23	607
	26	157
Syngenetic	26	175
Tabbyite	26	197
Taconic system	26	206
Terrigenous	26	448
Texture	26	481
Toadstone	26	658
Trap rock	27	15
Trass	27	17
Turkey stone	27	199
Volcanic glasses	23	605
Volcanic rocks	28	171
Vitreous rocks	28	155
Violet stones	28	106
Whimstone	29	256
See also under **Geology — Crystallography; Geology, General; Mineralogy.**		

Stratigraphy

Stratigraphy — cont'd	Vol.	Page
Cambrian	5	247
Cambrian strata	27	309
Canadian series	5	480
Canadian shield	1	484
Carboniferous	5	593
Champlain stage	6	275
Characteristics of the Tertiary	26	451
Chattahoochee stage	6	354
Contemporaneity of geological strata	7	584
Cretaceous	8	183
	11	277
Dakota stage	8	412
Devonian	9	41
Glacial Period	12	670
Greenstone series	16	335
Hamilton stage	13	662
Jurassic	16	254
Juratrias	27	53
Keweenawan series	16	385
Laurentian shield	27	309
Laurentian system	17	110
Marcellus stage	18	267
Mesozoic strata	27	309
Miocene period	2	199
	11	277
	19	216
Mississippi series	5	594
Mountain limestone	19	531
Niagara series	20	298
Niobrara stage	20	366
Oligocene	20	661
Ordovician	11	276
	20	771
	25	10
Oriskany stage	20	812
Pennsylvania series	21	539
Pleistocene	18	188
	22	245
	25	680

Stratigraphy — cont'd	Vol.	Page
Pliocene	2	199
	11	277
	22	250
Quaternary	23	66
Salina stage	24	184
Sedimentary rocks	24	524
Silurian stage	11	276
	25	10
Stratification	23	608
Stratigraphy	12	422
	12	433
	23	608
	25	718
Stratum	25	718
Structural geology	12	422
System	26	193
Tertiary beds	26	451
Tertiary deposits	26	451
Tertiary, characteristics of	26	451
Tertiary formations	27	310
Tertiary Period	25	680
	26	450
Trenton stage	27	48
Triassic	27	52
divisions	27	52
See also under **Geology, General,** above.		

Biographies

UNITED STATES

	Vol.	Page
Abbe, Cleveland, Jr.	1	12
Alexander, John Henry	1	367
Ashburner, Charles Albert	2	384
Atwood, Melville	2	528
Bailey, Loring Woart	3	51
Barbour, Erwin Hinckley	3	238
Barton, George Hunt	3	297
Bascom, Florence	3	301
Bayley, William Shirley	3	365
Beck, Lewis Caleb	3	403
Becker, George Ferdinand	3	404
Beyer, Samuel Walker	3	603
Blake, William Phipps	4	57
Brigham, Albert Perry	4	537
Branner, John Casper	4	415
Broadhead, Garland Carr	4	568
Brooks, Alfred Hulse	4	594
Brush, George Jarvis	4	640
Campbell, Henry Donald	5	278
Chamberlin, Thomas C.	6	263
Chilcott, Ellery Channing	6	460
Clark, William Bullock	7	44
Clarke, Edward Daniel	7	46
Clarke, John Mason	7	48
Claypole, Edward Waller	7	73
Cleaveland, Parker	7	79
Clingman, Thomas Lanier	7	113
Comstock, Theodore Bryant	7	454
Cook, George Hammell	7	621
Crosby, William Otis	8	229
Cross (Charles), Whitman	8	229
Curtis, George Carroll	8	317
Dale, Thomas Nelson	8	415
Dana, James Dwight	8	444
Dana, Edward Salisbury	8	444
Darton, Nelson Horatio	8	485
Davis, William Morris	8	513
Derby, Orville Adelbert	8	710
Diller, Joseph Silas	9	121
Dutton, Clarence Edward	9	439
	15	422
Dwight, William Buck	9	447

Biographies — cont'd	Vol.	Page
Eaton, Amos	9	516
Egleston, Thomas	9	780
Elmore, F. E.	11	380
Emmons, Ebenezer	10	297
Emmons, Samuel Franklin	10	298
Evans, John	10	592
Eyerman, John	10	682
Fairchild, Herman Le Roy	10	718
Farrington, Oliver Cummings	11	49
Featherstonhaugh, George William	11	76
Foster, John Wells	11	529
Frazer, John Fries	12	29
Frazer, Persifor	12	29
Gibbs, George	12	642
Gilbert, Grove Karl	12	649
Gregory, Herbert Ernest	13	457
Haanel, Eugene	13	601
Hague, Arnold	13	615
Hall, James	13	642
Hartt, Charles Frederick	13	743
Hayden, Ferdinand Vendeveer	14	16
Heilprin, Angelo	14	71
Hilgard, Eugene W.	14	186
Hill, Robert Thomas	14	189
Hitchcock, Charles Henry	14	297
Hitchcock, Edward	14	297
Hovey, Edmund Otis	14	451
Hunt, Thomas Sterry	14	512
Hyde, James M.	11	381
Iddings, Joseph Paxson	14	660
Irving, John Duer	15	402
Jackson, Charles Thomas	15	578
Julien, Alexis Anastay	16	243
Keith, Arthur	16	335
Kemp, James Furman	16	349
Kerr, Washington Caruthers	16	381
Keyes, Charles Rollin	16	387
Kimball, James Putnam	16	414
King, Clarence	16	428
Knowlton, Frank Hall	16	493
Kümmel, Henry Barnard	16	554
Lane, Alfred Church	16	713
Lapham, Increase Allen	16	741
Lawson, Andrew Cowper	17	154
Le Conte, Joseph	17	163
Leith, Charles Kenneth	17	273
Lesley, J. Peter	17	315
Leverett, Frank	17	328
Lewis, Henry Carvill	17	334
Libbey, William	17	345
Lieber, Oscar Montgomery	17	405
Lord, Edwin Chesley Estes	17	655
Lyman, Benjamin Smith	17	773
McGee, W. J.	18	47
Maclure, William	18	81
Marcou, Jules	18	274
Mather, William Williams	18	436
Mathews, Edward Bennett	18	437
Meek, Fielding Bradford	18	591
Mendenhall, Walter Curran	18	626
Merriam, John Campbell	18	679
Merrill, Frederick James Hamilton	18	680
Merrill, George Perkins	18	680
Metealfe, Samuel L.	18	712
Mitchell, Elisha	19	266
Muir, John	19	550
Newberry, John Strong	20	260
Niven, William	20	379
Orton, Edward	21	13
Orton, James	21	14
Owen, David Dale	21	63
Penfield, Samuel Lewis	21	507
Percival, James Gates	21	571
Perret, Frank Alvord	21	605
Porter, Benjamin Curtis	22	389
Powell, John Wesley	13	122
	22	476
Pumpelly, Raphael	22	800
Ransome, Frederick Leslie	23	214
Reid, Harry Fielding	23	330
Ries, Heinrich	23	516
Rogers, Henry Darwin	23	627
Rogers, William Barton	23	630
Russell, Israel Cook	23	785
Salisbury, Rollin D.	24	186
Scott, William Berryman	24	445
Shaler, Nathaniel Southgate	24	654
Shepard, Charles Upham	24	697
Silliman, Benjamin	25	9
Simonds, Frederic William	25	25
Smith, Eugene Allen	25	116
Smith, George Otis	25	118
Smock, John Conover	25	134
Smyth, Charles Henry, Jr.	25	141
Spencer, Joseph William Winthrop	25	394
Stevenson, John James	25	639
Talmage, James Edward	26	230
Tarr, Ralph Stockman	26	274
Troost, Gerard	27	86
Upham, Warren	27	584
Van Hise, Charles Richard	27	672
Vanuxem, Lardner	27	686
Vaughan, Thomas Wayland	27	700
Walcott, Charles Doolittle	28	219
Ward, Henry Augustus	28	698
Ward, Lester Frank	28	699
Washington, Henry Stephens	28	779
Weed, Walter Harvey	29	156
White, Charles Abiathar	29	264
White, David	29	264
White, Israel Charles	29	267
Whitfield, Robert Parr	29	278
Whitney, Josiah Dwight	29	284
Whittlesey, Charles	29	287
Williams, George Huntington	29	340
Williams, Henry Shaler	29	340
Winchell, Alexander	29	372
Winchell, Newton Horace	29	372
Wright, George Frederick	29	569

OTHER COUNTRIES

Biographies — cont'd	Vol.	Page
Abich, Wilhelm Herman	1	41
Adams, Frank Dawson	1	120
Barrande, Joachim	3	275
Beche, Henry de la	3	401
Beck, Richard	3	403
Becke, Friedrich	3	404
Bell, Robert	3	477
Beyrich, Heinrich Ernest	3	604
Bischof, Karl Gustav Christoph	4	12
Bonney, Thomas George	4	221
Borlase, William	4	275
Breithaupt, Johann August Friedrich	4	463
Brocchi, Giovanni Battista	4	570
Brongniart, Alexandre	4	578
Buch, Leopold von	4	655
	12	542
Buckland, William	4	667
Cohen, Emil	7	215
Cole, Grenville Arthur James	7	241
Coleman, Arthur Philemon	7	243
Croghan, Dr. John	18	180
Croll, James	8	220
Davy, Sir Humphrey	4	281
	8	515
Dawkins, William Boyd	8	515
Dawson, George Mercer	8	516
Dawson, Sir John William	8	516
Deluc, Jean André	8	629
Des Cloizeaux, Alfred Louis Olivier Legrand	8	720
Dewalque, Gilles Joseph Gustav	9	45
Dolomieu, Déodat Guy Silvain Tancrède Gratet de	9	238
Drummond, Henry	9	353
Eck, Heinrich	9	544
Elie De Beaumont, Jean Baptiste Armand Louis Léonce	10	239
	21	173
Engelhardt, Moritz von	10	336
Escher Von Der Linth, Arnold	10	494
Etheridge, Robert	10	536
Ettinghausen, Konstantin, Baron von	10	557
Faribault, Eugene Rodolphe	11	19
Faujas De Saint-Fond, Barthélemy	11	62
Favre, Jean Alphonse	11	70
Fernandez De Castro, Manuel	11	129
Fletcher, Lazarus	11	349
Flett, John Smith	11	350
Forbes, David	11	460
Forbes, James David	11	461
Foster, Sir Clement Le Neve	11	528
Fournet, Joseph J. B. X.	11	550
Friedländer, C. Gottfried Immanuel	12	104
Gay-Lussac	4	281
Geikie, Sir Archibald	12	359
Geikie, James	12	359
Geinitz, Hans Bruno	12	360
Gemmellaro, Gætano Giorgio	12	363
Gesner, Abraham	12	626
Godwin-Austen, Henry Haversham	12	750
Greenough, George Bellas	13	437
Griffith, Sir Richard John	13	471
Groth, Paul Heinrich von	13	490
Gümbel, Karl Wilhelm von	13	546
Haast, Sir Johann Francis Julius von	13	601
Hall, Sir James	13	642
Hargraves, Edward Hammond	13	708
Hautefeuille, Paul Gabriel	13	762
Haüy, René Just	13	762
	19	164
Hull, Edward	14	485

Biographies — cont'd	Vol.	Page
Humboldt, Friedrich Heinrich Alexander	14	489
Hutton, James	14	531
Jameson, Robert	15	609
Jukes, Joseph Beete	16	241
Jukes-Brown, Alfred John	16	241
Kidd, John	16	400
La Croix, Alfred	16	569
Lapparent, Albert Auguste Cachon de	16	744
Lapworth, Charles	16	745
Levy, Auguste Michel	17	331
Logan, William Edmond	17	596
Low, Albert Peter	17	696
Lyell, Charles	14	251
	17	773
Mantell, Gideon Algernon	18	237
Matthew, George Frederick	18	442
Meunier, Étienne Stanislas	18	736
Michell, John	19	17
Miller, Hugh	19	119
Miller, Willet Green	19	121
Miller, William Hallowes	19	122
Milne, John	19	130
Mohs, Friedrich	19	309
Murchison, Sir Roderick Impey	19	603
Nathorst, Alfred Gabriel	19	723
Naumann, Karl Friedrich	19	782
Newmann, Franz Ernst	20	98
Nicollet, Jean Nicolas	20	329
Ogilvie-Gordon, Maria M.	20	607
Omalius D'Halloy, Jean Baptiste Julien, Baron d'	20	679
Penck, Albrecht	21	499
Phillips, John	21	763
Phillips, John Arthur	21	763
Prestwich, Joseph	22	561
Quenstedt, Friedrich August	23	83
Ramsay, Sir Andrew Crombie	23	205
Raspe, Rudolph Eric	23	222
Raumer, Karl Georg von	23	231
Reichenbach, Karl	23	327
Réné, Just Haüy	8	268
Richthofen, Ferdinand	23	508
Rose, Gustav	23	692
Sedgwick, Adam	24	523
	25	10
Selwyn, Alfred Richard Cecil	24	545
Smith, William	25	129
Steensen, Niels	8	460
Steno, Nicolaus	8	460
	25	616
Suess, Eduard	25	789
Ulrich, Edward Oscar	27	263
Walker, Thomas Leonard	28	218
	28	230
Werner, Abraham Gottlob	12	542
	29	194
Zittel, Karl Alfred von	29	716

GLASS AND GLASS-MAKING

General	Vol.	Page
Annealing	1	717
	12	705
Avanturine glass	12	691
Bas-relief ornamental glass	12	697
Batch	12	695
Beadmaking	12	688
Belgian glass	12	692
Black glass	12	690
Borosilicate glass	12	694
Boston window glass	12	706
Bottle glass	12	694
	12	700
British Isles glass	12	692
Byzantine glass	12	690
Chandelier	6	283
	12	691
Chinese glass	12	689
Colored glass	12	691
	12	701
Crackled glass	12	691
Crizzling	15	100
Crown glass	8	247
	12	694
	12	700
Cullet	15	100
Cut glass	12	697
	12	701
Cut-glass patternings	12	698
Dropping	15	101
Elgin vase	12	699
English glass	12	692
Fascet	15	101
Filigree glass	11	208
Flashing	15	101
Flint glass	12	695
	12	701
French glass	12	691
Frit	12	695
Gathering	15	102
Glass	12	687
Glass beads	12	688
Glass-blowing	12	688
	12	702
Glass, chemical properties of	12	693
colors, chemical and physical properties of	12	694
compositions	15	516
definition and history	12	687
engraving	12	698
filagree	11	208
industry of France	11	708
of Eastern countries	12	690
varieties of	12	699
Glass, Grecian	12	689
Glass, Indian	12	698
Glass industry in the United States, statistics	12	710
Glass-making	12	703
crucibles and tanks	12	704
furnaces and fuels	12	704
fusion	12	705
lead-wheel process	12	698
raw materials	12	703
Roman	12	688
Glass manufacturing in America	12	706
Glass, ornamentation of	12	696
painting	12	711
physical properties of	12	694
prisms	12	690
sand	12	694
	12	710
staining	12	711
value of production in the United States	12	710
varieties of	12	699
Glaze	12	713
Glory hole	15	102
Grecian glass	12	689
Green glass	12	700
Hollow ware	12	702
Indian glass	12	689
Jena glass	16	12
Linnet-hole	17	462
Malleable glass	12	690
Marbled glass	12	691
Millefiori	12	691
Mirror	12	693
	19	221
Obsidian	12	687
Opalescent glass	12	695
Opaque glass	12	695
Optical glass	12	694
	12	702
Phœnician glass	12	688
	12	689
Pig	15	104
Plate glass	12	694
	12	700
Ponty	15	104
Portland vase	12	697
Pot arch	15	104
Pressed glass	12	701
Prince Rupert's Drops	22	583
Prismatic effects	12	696
Prisms glass	12	690
Rock crystal effects	12	698
Roman glass	12	689
Siligrana glass	12	691
Société des Manufactures de Glâces	12	692
Tiffany Favrile	26	620
Tyrian glass, manufacturers of	16	118
Venetian glass	12	691
production	12	688
Vitro di trina glass	12	691
Wheel-cutting	12	691
Window glass	12	699
shell	24	686
Wire glass	12	702
	15	285
	29	413

GOVERNMENT AND POLITICAL SCIENCE

General	Vol.	Page
Abdication	1	29
Absentee voting	10	75
Albany regency	1	329
	27	380
	27	664
Alderman	1	354
Alternate	1	447
American political issues	1	550
Amendments, constitutional, history of	7	575
Amis de la Vérité	3	369
Anarchism	1	623
Annexation	1	718
Anti-Corn Law League	4	539
Anti-Masonic movement	13	132
Appointments	2	92
Apportionment	2	94
Appropriation	2	98
Appropriations, American system of	2	99
Archives	2	186
Imperial Russian	2	186
Aristocracy	2	237
Aristocratic state	25	527
Army and navy bounties	4	343
Assembly, legislative	2	420
Autocracy	2	641
	25	527
Autocratic state	25	527
Autonomy	2	668
Balance of power	3	69
Ballot	3	107
	28	188
Australian	3	108
Benthamite liberalism	13	201
Bering Sea controversy	3	552
Bicameral system	3	679
Big Stick, policy of legislation	19	376
Birmingham system	6	127
Black Friday	13	138
Black Horse Cavalry	4	36
Blocks of Five	4	101
Blue books, American	4	124
English	4	124
Boss	4	290
	5	264
Bounties	4	342
army and navy	4	343
Federal and State	4	343
land	4	344
nature and operation of	4	342
Bourgeois National State attacks upon	25	181
Breckinridge platform	8	659
Bribe	4	488
Broad Seal War	4	567
Buckshot War	4	669
	15	201
Budget	4	677
Budgets, American	4	678
foreign	4	681
Bundesrat	12	526
Bundesrath	26	148
Bundesstaat	11	82
Bureau	5	36

General — cont'd	Vol.	Page
Bureaucracy	5	36
Burgomaster	5	41
Cachet, lettres de	5	129
	17	325
Cameralism	25	209
Campaign of 1868	8	660
Candidate	5	494
Capitulations	5	567
Carpet bag governments	5	656
Carpet baggers	5	656
Caucus	6	127
	21	359
	27	350
mixed	27	349
Censors	6	192
Census	6	194
Cent	6	198
Centralization	6	213
Centralized government	6	213
	25	509
Century	6	216
Chartism	6	340
	13	285
Christian socialism, recent developments of	25	180
Cities, American, government of	6	700
European, government of	6	702
Citizen	6	704
Citizenship in the United States	6	707
Citizenship and education	6	706
City	6	711
budgets	4	680
council procedure	6	714
councils	6	714
manager plan of government	6	716
Civics and civic teaching	6	726
Civil and religious liberty in America	27	468
Civil Rights Bills	7	1
	16	160
Civil rights cases	7	2
Civil service	7	2
Civil service reform	7	3
Civil Service Reform Association	11	282
Civil War, political events of	27	417
Coadjutor	7	143
Coalition	7	165
cabinet	22	311
Coercion	7	206
Collectivism	7	253
Colonial elections	10	61
Colonial electoral qualifications	10	72
Colonial government, proprietary	7	287
Colonies	25	507
Colonies and colonization	7	295
Commercial revolution	8	642
	19	748
	19	749
	25	167

General — cont'd	Vol.	Page
Commercialism	7	416
Commission	7	402
governmental	7	403
military	7	403
Commission form of government	7	403
Committee	7	405
of correspondence	7	407
of public safety	7	406
of safety	7	407
Commons	7	416
Commonwealth	7	416
Commune	7	416
Community civics	6	726
Compulsory referendum	27	458
Compulsory voting	28	191
Confederacies	25	507
Confederation of the United States from 1781 to 1788	11	82
Conference	7	494
Congress	7	507
Continental	7	507
of the United States	7	510
of the United States, sessions of and political parties in	7	518
Library of	17	387
Congressional campaign of 1818	22	311
Congressional caucus	6	127
	27	479
Congressional caucuses for President and Vice-President	6	128
Consent of the governed, doctrine of	13	88
Constitution	7	563
of the United States	7	571
immutability of	7	566
of the year VIII, French	11	612
Constitutions, submission of to popular vote	7	607
Consul	7	578
Consulate	7	581
Continental system	7	588
Contraband	7	593
Convention, mixed	27	349
political	7	602
system	22	574
	27	350
Conventions, constitutional, in the United States	7	604
	25	516
constitutional, restrictions upon	7	608
methods of calling	7	605
minor	7	602
political	7	602
procedure of	7	606
revolutionary	7	609
Coodies	7	620
Corn laws, British, abolition of	13	285
Corregidor	8	19
Corrupt Practices Acts	8	21
British	8	21

General — cont'd	Vol.	Page
Corrupt Practice Acts, United States	8	21
Council committees	6	714
Councillors	6	714
County budgets	4	679
County Democracy, New York	8	107
Coup	8	112
d'etat	8	112
Court baron	8	123
Court, presentation at	8	122
Covode investigation	8	132
Crédit Mobilier scandal	8	173
	13	138
Crisis, The	8	209
Crittenden Compromise	4	268
	8	214
Crown	8	247
lands	4	344
	8	247
Cumulative voting	8	301
system of	22	667
Czar	8	378
Dead-letter office	8	525
	22	424
Debatable land	8	542
Debts, public	8	547
Declaration of Independence	8	561
Decuriones	8	573
Deficiency bills	2	100
Delegation	8	618
Demagogue	8	630
Demarcation, line of	8	631
Demiurge	8	639
Democracies	25	527
Democracies, Pure	8	653
Democracy	8	639
as a form of social control	8	652
as a form of the state and of government	8	653
historical phases of	8	651
history of	8	639
in the United States	8	647
nature of	8	651
Democratic economic reforms	8	668
Democratic National Convention, First	27	350
Department	8	701
Deputies, Chamber of (France)	8	704
	11	613
Chamber of (Italy)	8	704
Chamber of (Rumania)	8	704
Deputy	8	705
Despot	9	15
Diet	9	101
Direct nomination	27	350
Direct popular control of legislation, United States	27	478
Directoire	11	611
Directory	9	144
Dissolution	9	171
Divan	9	197
Divine right	9	202
	25	509
Doge	9	229
Double majority	9	274
Douglas platforms	8	659
Dreyfus case	6	134
	9	334
Dual allegiance	6	705
Duma	9	394
	24	42
Education, United States Bureau of	9	667

General — cont'd	Vol.	Page
Election by districts	27	479
Election districts	9	192
Elections	10	60
	10	61
authority to hold	10	61
classification of	10	61
classification of votes and voting — independent, popular, preferential, compulsory	28	188
contested	10	67
disputed	27	473
early colonial	10	61
educational and other tests	10	73
electoral frauds and safeguards against	10	70
Federal control of	10	68
party nominations, primaries, etc.	10	62
polling places	10	63
qualifications	10	71
colonial	10	72
modern	10	73
system	10	87
votes	10	87
registration of voters	10	63
registry boards	10	64
terms and qualifications for office	10	84
Federal	10	84
State	10	86
time and place of holding	10	62
vote, counting	10	65
voting districts	10	63
voting process	10	64
voting, residence and absentee	10	75
voting in Territories and dependencies	10	75
Electoral commission	27	480
Electoral Commission, 1877	10	69
Electoral frauds	10	70
Electoral frauds and safeguards against	10	70
Electoral qualifications, terms of and qualifications for office	10	71
Electoral system	10	87
Electoral votes	10	87
Electors	11	613
German Imperial	10	87
United States presidential	10	88
Emancipation	10	270
Catholic	10	270
in Latin America	10	271
proclamation	10	271
English pale	10	387
Envoy	10	406
Eparchy	10	411
Epistates	10	430
Equerry	10	460
Essex Junto	10	517
	11	85
Ethical civics	6	726
Exchequer	10	619
bills	10	619
tallies	10	619
Executive	10	621
Executive power, concentration of	22	311
Exile	10	638
External sovereignty	25	317
Fabian Society	13	286
	25	179
Fagot vote	10	711
Fait accompli	10	723

General — cont'd	Vol.	Page
Family	11	2
Farmer's letters	11	39
Federal bounties	4	343
Federal government, nature of	11	82
Federalist, The (essays)	11	85
Fee system	11	89
Fence-viewers	11	113
Feudal system	11	159
Filibustering in legislation	11	207
Finance, public	22	754
Floaters	10	70
Force Bill	11	462
Force, doctrine of	25	509
Forest fires, government regulations concerning	11	468
Foreign Office, British	13	227
Franchises	11	752
granting of	11	753
legal nature of	11	752
provisions of	11	753
taxing of	11	753
Franking privilege	12	7
Friends of the People	12	108
Gemot	12	363
German philosophy of the State	25	177
Gerontes	12	623
Gerrymander	2	95
	12	624
Ghibellines	12	633
Gild-socialism	25	183
Girondin	12	667
Girondist	12	667
Good feeling, era of	10	465
Government	13	87
by injunction	13	92
characteristic feature of	13	90
classifications of	13	89
Colonial, proprietary	7	287
constitutional	13	90
de facto	13	87
de jure	13	87
departments	13	227
ethical right to exist	13	88
Federal	11	81
forest work	11	480
instrument of	15	174
local	17	554
principles of	17	554
municipal	19	575
parliamentary	13	90
political parties	24	41
popular	13	89
Presidential	13	90
printing office	13	96
sphere of	13	91
Governments of the states of the world. See **Government and Political Science**, Section 5 — **Forms of Government.**		
Grandfather clause	13	131
Great seal	13	360
of the United States	13	360
Green books	4	124
Guelfs	13	523
Guelphs	13	523
Halifax platform	13	639
Hartford convention	11	86
	13	739
Historical political science	22	313
Home Department, British	13	227
Home Office, British	13	227
Home Rule	14	334
Great Britain	13	203

General — cont'd	Vol.	Page
Ireland	15	321
	25	41
Home rule in taxation	25	38
Hunkers	14	509
Impeachment, England	14	722
United States	14	722
Imperial Council, Russia	24	41
Imperial Federation, British	5	350
Imperial Federation, Canada	5	350
Imperial institute	14	723
Imperial service order	13	228
Imperialism	14	724
Impersonation	10	70
Inauguration Day	14	733
Independence, Declaration of	8	561
Independent vote	28	189
Indian affairs	15	26
commissioner of	15	26
Indian reservations	15	32
Individual coercion	7	208
Industrial civics	6	726
Industrial Relations Commission	7	408
Industrial Revolution	15	96
Initiative	15	134
	25	517
	27	458
	27	592
Instrument of government	15	174
Insurance by government	15	197
	28	684
Insurrection	15	201
Intendants	11	611
Internal sovereignty	25	317
Jefferson's Manual	13	209
	15	576
	16	463
Judge	16	232
Judiciary	10	624
	10	627
	16	236
German	12	528
	16	236
Junta	16	252
King	16	434
Kings, divine right of	9	202
	25	509
King's speech	16	446
Laissez-faire doctrine	16	655
	27	492
Labor movement in British politics	13	285
Land	16	691
bounties, United States	4	344
nationalization	25	184
tenure, Russia	24	5
Lands, public	22	763
unappropriated	22	763
Landslide	16	712
La Patrie Française	11	610
La syndicalisme	11	626
Latin American Federal government	11	82
League	17	176
League of the Princes	17	176
League of the Public Weal	17	176
Legation	17	240
Legislation	17	247
direct	17	249
direct popular control of in United States	27	458
Legislative committees	21	359

General — cont'd	Vol.	Page
reform	17	250
Legislators, State	2	95
Legislature	17	252
Les Droits de l'Homme	11	610
Lexow investigation	17	341
	21	332
Liberty of the Press	17	351
Liberty, religious	17	348
Life, liberty and property doctrine	8	643
Lobby	17	552
Local appointments	2	93
Local appropriations	2	100
Local auditors	2	535
Local government, Great Britain	13	217
Local governing bodies, Great Britain	13	222
Local option	17	557
Local option taxation	25	38
Locofoco	17	564
Log-rolling	17	594
London government offices	17	624
Majorities and pluralities	10	65
	22	259
Marxians	25	510
Marx socialism	25	178
May laws	4	18
Mayor	6	700
Mayor's power	10	626
Mikado	19	52
Military police	22	302
Military tribunes	27	53
Ministers, council of (Russia)	24	41
independence of (Great Britain)	13	210
Minor conventions	7	602
Minority representation	19	210
	22	667
Mint (Great Britain)	19	214
(United States)	19	213
Mir	19	216
	24	42
Missouri Compromise	17	446
	19	261
Mixed government	22	314
Modern electoral qualifications	10	73
Montesquieu's political doctrines	22	316
Moral civics	6	726
Morey Letter	19	449
Moss-backs	14	509
Mulligan letters	19	560
Municipal dumas, Russian	24	42
Municipal legislators	2	95
National budgets	4	678
National convention	7	603
National forests	11	480
National indebtedness of the world	8	547
National legislators	2	94
National monuments	19	741
National parks and monuments	19	740
National regeneration, Japan	15	146
Negro disfranchisement	20	52
Negro, political rights of	20	50
Negro suffrage	27	467
Nepotism	20	78
New Democracy	27	380
Newer anarchism	25	181
Newfoundland, The French Shore Question in	20	272

General — cont'd	Vol.	Page
New Revolt	13	286
Nomarchy	20	393
Nome	20	393
Nullification	15	576
	20	484
Offenses, political	22	309
Oligarchic State	25	527
Oligarchy	20	661
Open Door	20	699
Opportunism	25	179
Opposition	20	717
Oregon Question	20	782
Owenites	25	510
Pan-Germanism	21	225
Panslavism	21	248
Parliament, British	13	204
Party caucus	21	359
Party committees	7	602
Party machinery	27	348
Party nominations	10	62
Party organization	27	348
Party organization in legislative bodies	21	358
Party organization, machinery of	21	350
Party system, growth of	27	348
Passport	21	372
Paternal State	13	91
Patronage	21	405
struggle for	27	382
Pensions	21	545
Plebiscite	22	244
Platt amendment	8	288
Plurality	22	259
Pocket veto	28	54
Political Events of the Civil War	27	417
Political labor, British, in 1916	13	286
Political liberty, golden age of	25	509
Political phenomena	22	313
Political science	1	54
	22	313
descriptive	22	313
founder of	22	314
historical	22	313
methods of	22	313
Polling places	10	69
Posse comitatus	7	208
	22	423
Powers, separation of	11	619
Precedence	22	520
Preferential voting	28	190
President	22	546
Presidential candidates	27	556
Presidential suffrage	28	188
	29	450
Press, freedom of	22	554
Primaries	10	62
Primary, direct	22	574
Presidential preference	22	576
Primary suffrage	29	459
Prime Minister	22	578
Prince	22	580
Prince of Wales	22	583
Privy-purse, keeper of	22	614
Prohibition	22	628
Pronunciamento	22	655
Proportional representation arguments	19	210
	22	667
Proportional representation, list system	22	667
Protection	13	218
	22	671
reasons for	22	673
Public printer	13	97
Quæstor	23	54

General — cont'd	Vol.	Page
Qualified voter	28	189
Quids	23	89
	27	529
Radical	23	121
Randolph plan	23	210
Readjusters	23	248
Recreation, municipal provision for	19	582
Recall	23	266
Red Book, England	23	277
Red books, Spain	4	124
United States	4	124
Red tape	23	285
Referendum	15	134
	23	298
	26	148
	27	458
	27	592
campaigns	25	38
Refunders	23	248
Register	23	323
Registrar-General	13	228
Registration system	22	427
Registration of voters	10	63
	23	324
Registry boards	10	64
Registration	10	87
	23	324
Reichsrath	23	329
Repeal	23	383
Repeating	10	70
Representation	23	386
majority, minority and proportional	23	386
Representative government	23	387
Representatives, election of	11	613
Republics	23	391
	25	527
duration of	23	399
Reservations, military	23	410
Residence voting	10	75
Returning boards	23	437
Revisionist Socialism, growth of	25	179
Revolution	23	449
Revolutionary committee, Russian	24	42
Rewa Kantha	23	450
Rhea Letters	23	456
Roosevelt and the Progressive Party	23	684
Rotation in office	27	383
Russian People's League	24	61
Saint Simonians	3	369
	24	168
School and library	22	770
Scrub race	24	456
Sea power, Great Britain	13	173
Secession	24	500
Secession in the United States	24	500
	27	405
Secret police	22	302
Sedition	24	525
Select committee, Great Britain	13	226
Selectmen	24	538
	26	724
Serfs — redemption money, Russia	24	6
Short ballot	3	109
Sinecure	25	33
Single tax	25	35
Single tax referendums	25	39
Sinn Fein	25	40
Slavery	24	501
	25	88
Slavery in the United States	27	391

General — cont'd	Vol.	Page
Social civics	6	726
Social contract	25	509
Social contract doctrine	8	643
	25	160
Social reform, programs and movements	25	166
Socialism	25	191
Australia	25	199
Austria	25	196
Belgium	25	197
China	25	199
Denmark	25	197
Germany	25	195
Great Britain	25	197
Finland	25	198
France	11	624
	25	196
during World War	11	627
Holland	25	198
Italy	25	198
Japan	25	199
Marxian	25	178
Norway	25	198
Russia	25	198
Scientific	25	178
Spain	25	199
Sweden	25	199
Switzerland	25	199
United States	25	200
Social welfare	25	509
Sound money	14	19
Sovereign	25	317
Sovereignty	22	315
	25	317
	25	506
Spartacans	25	363
Spartacides	25	363
Spoils system	7	4
	27	380
Staatenbund	11	82
Staatenstaat	11	82
Staatsgemacht	25	509
Stadtholder	25	468
State	25	505
appointments	2	93
appropriations	2	100
auditors	2	535
bounties	4	343
budgets	4	679
coercion	7	206
control, growth of	25	508
government, American	25	514
basis of	25	515
governments, characteristics of	25	517
democratic control of	27	458
judiciary	25	516
legislation	6	702
legislatures	2	420
	25	515
militia	25	518
modern theory of	22	315
rights	25	528
school system	25	521
Socialism	25	180
rise and expansion of	25	179
State systems of education	25	519
State universities	25	522
State-wide direct primary	22	575
States	25	528
admission of	25	526
classification of	25	526
rights of	25	514
	25	515
Strict constructionists	25	734

General — cont'd	Vol.	Page
Submission of constitutions to popular vote	7	607
Subsidies	25	775
Suffrage	25	515
	27	460
	27	466
broadening of	10	73
in the Territories	27	467
for women	29	446
Sultan	26	8
Superintendent of documents	13	97
Syndicalism	25	182
	26	171
Syndicates	26	171
Tariff reform, British	13	203
Tithing	26	648
Toledo War	18	382
	26	675
Tories	13	200
	26	715
Town and town meetings	26	724
Town government characteristics	26	725
Town meeting proceedings	26	725
Town meeting system	26	725
Township	26	728
Trade Union movement	26	763
in France	11	626
Treasury auditors	2	535
Tribune	27	53
Tribunes of the Commons	27	53
Tribal system	27	53
Tribe	27	53
Two-thirds rule	27	229
Tsar	8	378
Unappropriated public lands	22	763
Undue influence	27	276
United States census	6	195
United States, The New Democracy and the Spoils System	27	380
Veto	28	54
power	25	516
Vice-presidential candidates	27	559
Viceroy	28	61
Village, English	28	87
United States	28	87
Virginia dynasty	6	129
Vorparliament	28	186
Vote	28	188
Vote, counting of	10	65
Voters	28	188
classification of	28	189
Voting districts	10	63
Voting process	10	64
Voting	28	188
machine	28	192
West, (The) as a factor in American politics	29	199
Whisky insurrection	15	201
	29	260
Whisky rebellion	15	249
Whisky ring	15	250
Whisky ring frauds	13	138
	29	260
White House	29	271
Wilson's address to Congress on 2 April 1917	28	485
Wilson democracy	27	530
Woman suffrage	1	557
	29	446
Woman suffrage, United States	27	467
in other countries	29	452
Women police	22	302

General — cont'd	Vol.	Page
World politics	29	526
Yellow books	4	124
Young Ireland	29	652
Young Italy	29	653
Zar	8	378
Zemstvo	24	42
	29	697

Administration

	Vol.	Page
Accounts and Disbursements, Division of (United States)	1	266
Agriculture, United States Department of	1	264
	27	353
Administration	1	143
Administrative agencies	25	516
Administrative class, British	13	228
Administrative functions	6	701
Agriculture, first Secretary of	23	781
Amendments, constitutional	7	575
ratification of	7	577
Ancillary administration	1	143
Animal Industry, Bureau of	1	265
Archons	2	186
Assay Commission	7	220
Ayuntamiento (Spain)	2	687
Biological Survey, Bureau of	1	266
Borough (England)	4	282
British Parliament	13	204
Bundesrat	12	526
Bundesrath	5	23
	26	148
Bureau	5	36
Bureaucracy	5	36
Burgomaster	5	41
Cabinet	5	118
American	5	119
and cabinet government	5	118
British, unity of	13	213
United States	27	353
Camerlengo	5	262
Canadian Parliament	5	347
Censers	6	194
Censors	6	192
Censorship of the press	6	193
Cent	6	198
Central administration (Canada)	5	443
	5	445
Centralization of government	6	213
	17	555
Century	6	216
Charter of 1814, French	11	612
Charter of 1830, French	11	612
Chemistry, United States Bureau of	1	265
	11	446
Cities, American, government of	6	700
administrative officials	6	700
functions	6	701
relation to State	6	700
State legislation	6	702
European, government of	6	702
Austria	6	704
England	6	702
France	6	703
Germany	6	703
Italy	6	703
other European countries	6	704

Administration — cont'd	Vol.	Page
City	6	711
City districts	9	192
councils, American	6	714
powers of	6	715
procedure	6	715
manager plan of government	6	716
planning	6	718
Civil list (United States)	7	1
Civil list (England)	7	1
Civil service (Great Britain)	7	2
	13	225
Civil service (United States	7	2
	14	19
Civil service pensions	21	546
Civil service reform	7	3
Classified service	7	4
Coherence of federations	11	83
Colonial government	7	287
Colonial system	27	351
Colville agency, Washington	24	188
Commerce and Labor, Department of	27	353
Commercial public utilities	19	572
Commission	7	402
governmental	7	403
manager plan	7	404
Committee	7	405
Common council	7	409
Commons	7	416
Communal administration, Italian	15	468
Communalism	7	416
Comptroller of the Currency	7	452
	27	23
Comptroller of the Treasury	2	100
	7	453
	27	24
Comptroller, State	7	452
Conciliar movement of the 15th century	8	642
Congress of Aix-la-Chapelle	15	256
Congress of the United states	7	507
	7	510
	14	446
	27	343
sessions of	7	513
Congress of Vienna	15	256
Congressional districts	9	191
Congressional Record	7	518
Congressmen-at-large	7	518
Constitution (United States)	7	571
	27	347
framing of	7	564
immutability of	7	567
(Japan)	15	649
(Canada)	5	346
Constitution of 1875 (France)	11	612
Consul	7	578
Consular service of the United States	7	579
Continental Congress	27	336
County	8	106
assessor	8	107
commissioners	8	107
council (United States)	8	107
(England)	8	107
	13	219
(Wales)	8	107
County government in the United States	8	108

Administration — cont'd	Vol.	Page
County organization	8	110
County seat	8	111
Court	8	115
in the United States	8	117
New York	8	119
of Appeals	8	123
Supreme Court	8	120
Surrogates'	8	119
Crop Estimates, Bureau of	1	265
Crown and Cabinet (Great Britain)	13	210
Crown and Parliament (Italy)	15	465
Crown colonies (England)	8	247
Custom districts	9	192
Custom-house	8	337
Dead-letter office	8	525
	22	424
Detective	9	16
Diet	9	101
Diplomacy, United States	1	510
	27	359
Directoire	9	144
	11	611
District	9	191
rural administrative	9	194
State	9	191
District of Columbia	9	193
Doctrinaires	9	218
Doge	9	229
Domain	9	239
Dominus	9	249
Double shuffle, Canadian	9	274
Duma	9	394
	24	42
Durbar	9	420
East India companies	9	503
Eastern question	9	509
Entomology, Bureau of	1	266
Eparchy	10	411
Epistates	10	430
E Pluribus Unum	9	472
Equerry	10	460
Executive	10	621
	10	627
power	10	627
	11	613
	27	478
Exequatur	10	636
Federal Horticultural Board	1	266
Federal Railway Administration	27	406
Federal Reserve Board	3	183
	27	24
Federal Trade Commission	11	84
	27	115
Federations, coherence of	11	83
Fire chief	11	234
Fire districts	9	192
Fire marshal	11	234
	11	242
Firman	11	258
Fish and Fisheries, Commission of	11	278
	11	279
Fisheries, Bureau of	11	284
	11	286
Folk-Moot	11	417
Food Control Law, United States	11	433
Forest service, United States	1	265
	11	480
Forest service organization	11	482
Formation of State constitutions	27	336

Administration—cont'd	Vol.	Page
Franchises	11	752
capitalization of	11	754
Franchise, reversion of	11	754
service and extensions of	11	754
taxing of	11	753
tenure of	11	753
Gemot	12	363
General court	12	373
land office	26	101
Geological survey, United States	12	418
Gerontes	12	623
Good roads movement, government aid to	13	52
Government, centralization of	6	213
	17	505
Government regulation of railroads	27	497
Governor	13	97
	25	516
State, powers of	25	516
Governors' conference	13	98
Great Seal	13	360
of the United States	13	360
Hayward	14	23
Health districts	9	192
Health, public, regulation of	14	27
Home rule, general	14	334
Ireland	15	321
	25	41
House of Commons	13	205
Speaker of	13	206
House of Lords	13	205
House of Peers	21	470
House of Representatives	7	510
	14	446
	17	252
Housing, municipal control of	19	581
Hydrographic Office, United States	14	575
Immigration, Bureau of	14	715
	27	465
Impeachment	14	722
Initiating legislation, Switzerland	26	148
Initiative	15	134
Inland Waterways Commission, United States	15	139
Installation	15	167
Insurance patrol	15	199
Insurrection	15	201
Interior, United States Department of	15	216
	27	353
Internal Revenue, Commissioner of	27	24
Internal revenue districts	9	192
Internal Revenue System, United States	15	249
Interstate Commerce Commission	7	403
Judge	16	232
Judgment	16	234
Judicial districts	9	193
Judiciary	10	624
	10	627
	16	236
Justice, Department of	16	264
	27	353
King	16	434
Labor bureaus	16	591
Labor, United States Department of	16	591
	27	353
Labor departments, foreign	16	593

Administration—cont'd	Vol.	Page
Laissez-faire	16	655
	27	492
Land Office, general	26	101
Land Office of the United States	16	698
Legislation	17	247
direct	17	249
Legislative power, France	11	613
Legislative reform	17	250
Legislators, State	2	95
Legislature	17	252
Legislature (United States)	25	461
	27	457
Lieutenant-general and governor of Ireland	13	236
Lieutenant-governor	17	408
Life-saving Service, United States	17	414
Local administration (Ireland)	13	236
Local government	17	554
Canada	5	348
Great Britain	13	217
Switzerland	26	148
principles of	17	554
Local option	17	557
Local organization	17	556
Marshal	18	325
Mediation and Conciliation, Board of (United States)	4	136
Mediæval cities, administration of	19	590
Merit system	7	4
Mikado	19	52
Military police	22	302
Minister	19	194
Mint	19	213
Mint, director of	19	213
	27	24
Modern cabinet, British	13	212
Modern diplomacy	27	366
Municipal accounting	19	567
charters	19	592
contracts	19	593
corporation	13	219
executive	10	626
ferries	19	586
government	19	575
home rule	19	576
	19	584
ownership	19	586
pensions	21	547
powers	19	592
miscellaneous	19	593
problems	19	578
Municipalities	19	590
American	19	591
English	19	590
Greek	19	590
Roman	19	590
National Assembly (France)	11	611
National Board of Health, United States	19	726
National Civic Federation	13	678
	19	727
Navy, United States Department of	20	18
	27	353
New England, local government	26	726
Officials and boards of American cities	6	701
Office of Public Roads	13	56
Old Age Pensions	21	545
Orders in Council	20	764
Ottoman Porte	25	761

Administration—cont'd	Vol.	Page
Parcel Post (United States)	21	292
Parcel Post (English)	14	54
	21	293
Paris Senate and House of Deputies	21	311
Parish Council (Great Britain)	13	219
Parliament, Italian	15	467
England	13	204
Parliament Act, England	13	207
	13	210
Parliamentary Reform, England	14	290
Party organization in legislative bodies	21	358
Party organization, machinery of	21	359
Party system in American State government	25	517
Patent office, United States	21	388
Penny postage system, English	14	189
Pensions	21	545
civil service	21	546
Civil War	21	547
Indian wars	21	547
invalid	21	546
maternity	21	546
Mexican War	21	547
military	21	547
municipal	21	547
old age	21	545
Spanish-American War	21	548
War of 1812	21	547
widows'	21	546
Philippines Secret Service	24	516
Placet	22	140
Placitum	22	140
Plant Industry, United States, Bureau of	1	265
Pocket veto	28	54
Podestá	22	270
Police of England	22	301
Police of France	22	301
Police of Ireland	22	302
Police of Rome	22	301
Police of Scotland	22	302
Police of United States	22	302
Police power	19	592
	22	303
Police rate	13	221
Police state	13	91
Polizerstaat	13	91
Political administration, Italian	15	462
Political offenses	22	309
Poor districts	9	192
Poor law authorities, British	13	223
Popular choice of electors	27	479
Popular control	17	556
Popular sovereignty	27	318
Popular vote	28	190
Post and postal service	22	425
Postal Union	22	424
Postmaster-General	22	423
Post Office Department, United States	22	423
	27	353
Post office statistics, United States	22	424
Postal money order service	22	432
Postal savings banks of the United States	3	191
	22	424

Administration—cont'd	Vol.	Page
Powers of the council..	6	715
President	2	100
	10	621
	22	546
choice of.....	27	479
obligations of.....	27	480
powers of.....	27	480
privileges of.....	27	480
salary of.....	22	546
President of France....	11	613
President's office, United States	27	478
Presidential governments	13	90
Presidential succession..	27	480
Prime minister.....	22	578
Prince	22	580
Privy council.....	22	613
Privy-purse, keeper of..	22	614
Privy seal.....	22	614
Prize courts and prize jurisdiction	22	615
Proclamations, executive	22	628
Proportional representation	22	666
Protocol	22	690
Prorogation of Parliament	22	668
Province	22	709
Provincial administration, Italian.....	15	468
Provincial assembly, Japanese	15	649
Provincial congresses, American	27	336
Provincial conventions, American	27	336
Provisional government of 1848 (France).....	11	612
Provisional government (Russia)	24	43
Public Health Service, United States.....	27	24
Public Safety, Committee of, French	7	406
Public utility commissions, United States..	27	498
Public utilities, control of	19	582
Railroad commissions, United States.....	27	498
Railroads, government regulation of, in the United States.....	27	497
Railway Post Office....	22	424
Reclamation Service, United States.....	28	270
	27	560
Regent	23	320
Registrar-General, British	13	228
Register	23	323
Registration	10	87
	28	324
Reichsrath	23	329
Reichstag	12	526
	23	329
Revised Statutes of the United States.....	23	447
Rural districts and divisions	9	192
Rural free delivery.....	22	424
Rural roads, expenditures on.....	23	561
Satraps	24	312
School districts.....	9	193
Secret informers.....	24	515
Secret service.....	9	17
	27	24
new	24	516
United States.....	24	515

Administration—cont'd	Vol.	Page
Secretary of State, United States.....	24	519
	25	514
England	24	519
Secretary of the Treasury	27	23
Senate, France.....	11	613
Russia	24	41
United States.....	14	446
	24	557
Sheriff	24	703
Shogun	24	741
Skupshtina	24	586
Solicitor-General	25	240
Speaker	25	365
Sovereign	25	317
Sovereignty	22	315
	25	317
	25	506
Speaker of the House of Representatives	27	482
Spoils system.....	1	329
	2	92
	7	4
	15	576
	27	316
	27	380
and administration..	27	383
and civil service reform	27	384
and the South.....	27	383
machinery of.....	27	382
significance of.....	27	382
Squatter sovereignty....	25	464
	27	408
Staatenbund	11	82
Staatenstaat	11	82
Staatsgemacht	25	509
Stadtholder	25	468
Standards, Bureau of...	25	480
	25	506
State	25	505
State Assembly districts	9	192
State constitutions.....	27	337
(1789–1919)	27	456
formation of.....	27	336
State control, growth of.	25	508
State, Department of...	25	513
	27	353
State districts.....	9	191
State executive.....	10	624
State fire marshal.....	11	242
State government.....	25	461
characteristics of....	25	517
American	25	514
democratic control of	27	458
Judiciary	25	516
legislatures	2	420
	25	515
State regulation of railroads	27	498
State relation service...	1	266
State senatorial districts	9	191
States, rights of.....	25	514
State systems of education	25	518
Steward	25	642
Storthing	25	699
Sublime Porte.....	25	761
Sultan	26	8
Syndic	26	171
Taxing districts.....	9	192
Theocracy	26	508
Thesmothete	26	548
Tithing	26	648
Town and town meetings	26	724
Township	26	728
Trade, board of.....	26	748
Treasury Department, United States.....	27	23
Tribune	27	53

Administration—cont'd	Vol.	Page
Triumvir	27	80
Triumvirate	27	80
Triumviri capitales.....	27	80
Triumviri monetales....	27	80
Triumviri reipublicæ constituendæ	27	80
Tsar	8	378
United States Bureau of Mines	27	550
United States Health Service	22	34
United States Housing Corporation	15	86
United States Public Health Service.....	22	34
	22	758
United States Reclamation Service.....	27	560
Urban district council, British	27	590
Vice-Presidency, United States	27	481
War, censorship of.....	28	258
pensions	28	683
War power, the United States constitutional..	28	683
War risk insurance.....	28	684
War Risk Insurance Bureau (U. S.).....	28	683
Water districts.....	9	192
Weather Bureau.....	1	265
	29	131
Zemstoo	24	42
	29	697

Citizenship

Aliens	1	401
debarred	27	464
deported	27	464
in wartime.....	1	403
Allegiance	1	410
dual	6	705
Citizen	6	704
Citizenship and education	6	706
Citizenship in the United States	6	707
Elections	10	61
Electoral qualifications..	10	71
Freedom of city.....	12	49
Freeman	12	51
Freedman	12	51
Freedmen's Bureau Bill.	16	169
Immigration	27	463
	27	464
Restriction League..	11	282
Japanese emigration....	15	738
Nationality	19	765
Naturalization	19	771
Naturalization laws.....	19	772
United States, suffrage in	27	466
Vote, voters, voting....	28	188
Woman suffrage.....	29	446

Foreign Relations

A. B. C. Powers.....	1	27
Acts of hostility.....	1	111
Alaskan Boundary Commission	1	320
Alaskan boundary dispute	13	354
	15	252
Algeciras Conference in 1906	13	337
Alliances	1	418
Ambassador	1	470
American diplomacy....	1	510
American Civil War....	13	352
diplomatic negotiations with Great Britain due to....	13	352

Foreign Relations—cont'd	Vol.	Page
Americo-Canadian questions	13	354
Anglo-American Agreement of 1889	13	353
Anglo-American Commission	1	686
Anglo-American disputes	13	354
Anglo-American penny postage	14	54
Anglo-American Treaty	13	354
Anglo-Canadian consolidation policy	13	352
Anglo-Japanese Alliance	11	15
	13	466
	15	539
Anglo-Japanese treaties	1	686
Anglo-Japanese Treaty of 1902	15	737
Anti-Japanese agitation	15	737
	15	738
Arbitration, international	2	142
	27	484
Arbitrations, American, with France	27	486
with Great Britain	27	484
with Spain	27	486
with Venezuela	27	486
Ashburton Treaty	2	384
	5	418
Asylum in consulates	2	485
Asylum in legations	2	484
Asylum on ships	2	485
Asylum, right of	2	484
Berlin, Treaty of	3	565
	9	510
Blaine-Bond Reciprocity Treaty	5	360
	13	353
Bond-Blaine Convention	4	209
Bosnia-Herzegovina, annexation of	4	289
	15	553
Boundaries of the United States, disputes in regard to	4	329
British Extradition Act of 1870	13	353
British foreign policy in Africa	13	336
British foreign policy in America	13	336
British foreign policy in Europe	13	332
British foreign policy in India	13	333
British - Venezuelan boundary controversy	13	353
British West Indies, diplomatic relations of the United States with	4	563
Bulwer-Clayton Treaty	5	20
Calvo doctrine	5	241
	19	375
Canada, diplomatic relations of the United States with	5	357
Canadian Reciprocity Treaty	13	352
Canadian Rebellion of 1837-38	13	350
Canal Zone dispute	15	253
Capitulation	5	567
Capitulations, Turkish	5	567
Caribbean, American interests and diplomatic relations in	5	609
Central America, diplomatic relations with	6	205
China, diplomatic relations with	6	533
China-Japanese Treaty	15	739

Foreign Relations—cont'd	Vol.	Page
Civil War diplomacy (1861-72)	27	533
Clayton-Bulwer Treaty	5	610
	13	351
	13	353
	13	354
	14	16
Colonial wars in America	7	289
Commercial treaties	7	398
Contraband	7	593
Diplomatic history of the European War	28	267
	28	474
Diplomatic intercourse during European War	28	613
Diplomatic proceedure, United States	27	531
Drago doctrine	9	293
	19	375
Early expansion, United States	27	531
Entente Cordiale	10	399
	13	337
	13	466
	15	553
Envoy	10	406
Extradition Treaty with Japan	15	737
European policy of England	13	333
European policy of the United States	13	333
European War, diplomatic history of	28	267
	28	474
diplomatic intercourse during	28	613
Expansion policy, United States, 1895-1904	27	533
Extradition	10	673
Extradition, interstate	10	673
Extraterritoriality	2	484
	10	674
Far Eastern Question	11	13
sphere of influence	11	14
Foreign laws	11	468
Foreign policy, Russia	24	53
United States	27	531
Foreign states	11	468
France and Great Britain, Italian relations with	15	555
Foreign and war powers of Federal governments	11	83
French treaties of 1778 and 1788	13	349
Fur seals, protection of	15	737
	24	484
Germany, diplomatic relations of the United States with	12	617
Ghent, Treaty of	13	349
	13	355
	15	251
Great Britain, diplomatic relations of the United States with	13	348
Hague Court	13	616
Hague Peace Conferences	13	617
	27	27
Hague Permanent Court of Arbitration	13	354
Hague Tribunal	13	353
Haiti, diplomatic relations of the United States with	13	627
Hay-Bond Treaty	4	209
	5	361
	13	353
	13	354

Foreign Relations—cont'd	Vol.	Page
Hay-Pauncefote Treaty	13	354
	14	15
Indian Civil Service	13	334
International arbitration	2	142
	27	484
International Bureau of American Republics	21	224
International claims and disputes	15	251
International law	15	255
changes in	15	260
International peace movement	15	263
International Prize Court	27	32
Interparliamentary Union for International Arbitration	15	267
Intervention	15	268
Italy, diplomatic relations of the United States with	15	550
Italo-Austrian Alliance	15	556
Itata case, 1891	15	557
Jameson raid	13	337
	15	609
Japan, diplomatic relations of, with the United States	15	735
Japan-Korea Treaty	15	559
Jay Treaty	13	730
	15	762
Johnson-Clarendon Treaty	13	352
Latin-American policy (1815-26) of the United States	27	532
Laws, foreign	11	468
Legation	17	240
London, Conventions of	17	632
pact of	17	631
treaties of	17	632
Mafia incident	15	551
Monroe Doctrine	13	351
	19	373
	27	532
Morocco crisis of 1911	13	337
	19	470
Nationalism	19	743
Nationality	19	765
Nationality, force of	13	332
Neutrality	20	102
Neutrality, principles of	28	612
Neutral trade and American foreign policy (1789-1815)	27	532
Newfoundland, French Shore Question in	20	272
North Atlantic Coast fisheries dispute	15	252
	15	258
Northeastern boundary dispute	15	252
Northwest boundary question	5	350
Olney Doctrine	19	375
	20	671
Open door policy	11	15
	14	13
	15	737
	20	699
Oregon boundary question	13	351
	27	533
Pan-American Commercial Congress	21	224
Pan-American Conference	21	223
Pan-American Union	21	224
Papacy	21	251
Papacy and the Italian government	15	472

Foreign Relations—cont'd	Vol.	Page
Papal guarantees, laws of	21	255
Partition treaties	21	354
Passamaquoddy question	5	359
	13	350
Passport	21	372
Peace conference of 1919 (World War)	28	512
Peace treaties	21	441
World War	28	521
Perry Treaty	15	737
Platt amendment	8	288
Policy of isolation, American	19	374
	27	532
Policy of neutrality, American	27	534
Policy of the United States in the World War (1914-19)	27	534
President's treaty-making power	27	26
Privileges and immunities	22	613
Prize courts	22	615
Protectorate	22	675
Reciprocity treaties	13	352
	27	27
Roosevelt, peace negotiations	15	737
Russian Revolution	11	15
	24	14
Safe conduct	24	101
San Juan water boundary dispute	13	352
	24	243
San Stefano, Treaty of	1	32
	24	246
Seizure of the Caroline	13	350
Second Hague Conference convention provisions	27	32
Senate of the United States, treaty-making power	27	26
Shimonoseki indemnity	15	737
Shimonoseki, Treaty of	15	425
	15	559
	24	713
Special international agreements	27	28
States, foreign	11	468
Tientsin Treaty	15	559
Treaties	27	25
	27	31
and House of Representatives	27	26
arbitration	27	32
as a source of International Law	27	25
capitulations	27	28
how made	27	26
Indian	27	29
interpretation of	27	28
kinds of	27	27
miscellaneous articles	27	28
naturalization	27	32
of alliance	27	27
of commerce	27	27
of peace	27	27
of the United States with foreign powers	27	30
protocol	27	28
ratification of	27	26
reciprocity	27	32
right to make	27	25
secret articles	27	28
with Great Britain	27	32

Foreign Relations—cont'd	Vol.	Page
Treaty	27	33
negotiations with Japan	27	32
Treaty of Arbitration (1911)	27	32
Treaty enforcement	27	29
Treaty-making power	27	25
Treaty port	27	34
Treaty powers	27	27
Treaty renewal	27	28
Treaty terminations	27	28
Treaty, validity of	27	27
Trentino offered to Italy by Austria	15	554
Triple Alliance	15	552
	27	70
of 1788	13	461
Triple Entente	27	72
Vitoria, Treaty of	8	631
Washington, Treaty of	5	425
	5	361
	13	352
	15	252
	28	796
Waterways, Canada and the United States, Treaty of 1909	5	361
Webster-Ashburton Treaty	5	359
	13	350
	15	252
	29	148
Western expansion (1819-60)	27	532
World Power policy United States (1905-14)	27	534
World War and Great Britain	13	355
World War	28	279
peace treaties	28	521
Austrian	28	576
Brest-Litovsk	28	611
Bulgarian	28	605
Franco-American-British	28	611
German	28	522
Polish	28	607
X Y Z correspondence	29	595
Zulu War of 1879	13	337

Forms of Government

Forms of Government—cont'd	Vol.	Page
Absolute monarchy	19	336
Absolutism	1	54
Anarchism	1	623
Aristocracy	2	237
	13	89
	25	527
Australian Federation	2	620
Autocracy	2	641
	25	527
Bolshevik government	18	456
	24	43
Bundesstaat	5	23
Cabinet and cabinet government	5	118
Cabinet meetings	5	120
Cabinet members	5	120
City manager plan	6	716
Civil service	1	555
Collectivism	7	273
Commission form of government	7	403
Commonwealth, Australian	2	782
Constitutional monarchy	19	336
Democracy	8	639
	13	89
Democratic monarchy	25	527
Depot	9	15
Des Moines plan	7	404

Forms of Government—cont'd	Vol.	Page
Federal government	11	81
Federalized form of government	25	509
Feudal form of government	11	160
Feudal system	11	159
Government and constitutions of:		
Abyssinia	1	59
Afghanistan	1	209
Alabama	1	303
Alaska	1	318
Alberta	1	336
Argentina	2	208
Arizona	2	253
Arkansas	2	259
Assyria	2	431
Australia	2	582
	2	585
	2	587
Austria-Hungary	2	624
Bavaria	3	355
Belgium	3	462
Bolivia	4	186
Brazil	4	430
Bulgaria	5	1
California	5	211
Canada	5	346
	5	348
	23	73
Ceylon	6	237
Chile	6	503
China	6	524
Colombia	7	279
Colorado	7	320
Connecticut	7	530
Costa Rica	8	42
Cuba	8	283
Delaware	8	611
Denmark	8	681
Federated Malay States	11	87
Finland	11	224
Florida	11	373
France	6	703
	11	610
Georgia	12	487
Germany	6	703
	12	524
Great Britain	13	217
Greece	13	377
Hawaii	14	3
Hungary	14	502
Idaho	14	659
Illinois	14	687
	14	688
India	15	9
	15	12
Indiana	15	36
Iowa	15	300
Ireland	15	314
Italy	6	703
	15	462
	15	465
	15	468
Japan	15	649
Java	15	757
Kansas	16	297
Kentucky	16	367
Louisiana	17	682
Maine	18	146
Manitoba	18	223
Maryland	18	354
Massachusetts	18	403
Mexico	18	757
Michigan	19	24
Minnesota	19	206
Mississippi	19	245
Missouri	19	257
Montana	19	392
Morocco	19	468

Forms of Government—cont'd	Vol.	Page
Nebraska	20	29
Netherlands	20	90
Nevada	20	107
New Brunswick	20	117
New Caledonia	20	119
Newfoundland	20	270
New Hampshire	20	127
New Jersey	20	143
New South Wales	20	162
New York	20	200
New Zealand	20	253
Nicaraugua	20	305
North Carolina	20	415
North Dakota	20	423
Norway	20	439
Nova Scotia	20	465
Ohio	20	614
Oklahoma	20	639
Ontario	20	69[illegible]
Oregon	20	779
Panama	21	230
Pennsylvania	21	526
Peru	21	646
Porto Rico	22	403
Portugal	22	411
Prussia	22	719
Punjab	23	21
Quebec	23	73
Rhode Island	23	468
Rumania	23	765
Russia	24	41
San Marino	24	244
Saskatchewan	24	309
Scotland	24	432
Serbia	24	586
Siam	24	764
South Carolina	25	291
South Dakota	25	302
Spain	25	329
Texas	26	463
Tripoli	27	75
Union of South Africa	27	289
United States	27	335
	27	336
	27	343
	27	348
	27	351
	27	353
	27	380
	27	413
	27	434
	27	488
Venezuela	27	730
Vermont	28	22
Victoria	28	71
Virginia	28	119
Washington	28	784
West Virginia	29	213
Wisconsin	29	421
Wyoming	29	787
Yukon	29	675
Lecompton constitution	17	211
Limited monarchy	19	336
Mixed monarchy	19	336
Monarchial form of government	19	336
	22	315
Monarchy	13	89
	19	336
	25	527
absolute	13	89
	19	336
elective	13	89
	19	336
hereditary	13	89
	19	336
limited	13	89
	19	336
Mixed	19	336

Forms of Government—cont'd	Vol.	Page
Oligarchy	20	661
Proxy	22	711
Republic	13	89
	23	391
	23	399
	25	527
Soviet	24	43
	25	318
	28	472
Theocracy	26	508
Trenton commission government	27	45
Vilayet	28	86
Weimar government	28	469

Political Parties

Political Parties—cont'd	Vol.	Page
Abolitionists	1	44
Agrarian Party	1	240
American Party	1	548
	27	529
Anti-Federalists	2	30
	11	85
	16	3
	27	348
Antimasonry	2	33
Antimonopoly Party	2	34
Antiwar Democrats	2	43
Barnburners	3	265
Blue Light Federalists	27	720
Bolsheviki	18	456
	25	318
	28	472
Bucktails	4	670
Bull Moose	5	9
	22	636
	27	325
	27	530
Carlists	5	619
Centralists	6	213
Christian Socialistic Party	25	659
Conservative	7	548
Conservative-Union Party	27	422
Constitutional Democrats	24	43
Constitutional Union Party	7	577
Copperheads	7	666
	27	421
Cotton Whigs	11	211
Democratic Party	8	655
	27	350
	27	528
	29	255
Democratic - Republican Party	11	85
Equal Rights Party	10	440
Farmers' Alliance	11	38
Federal Party	11	85
Federalists	11	85
	16	3
	27	348
	27	528
Fiscal Reformers	13	340
Free-Soil Party	12	44
	16	242
Free Traders	13	340
French Socialist Party	11	627
Greenback Labor Party	13	426
Greenback Party	13	426
	27	530
Half-breeds	13	636
Independent Party	13	426
Independents	13	340
Intransigeants	15	271
Irredentists	15	392
Jeffersonian Republicans	23	399
	27	528
Jung-Deutschland	16	248

Political Parties—cont'd	Vol.	Page
Know Nothing Party	1	548
	4	268
	9	280
	11	211
	16	494
	27	529
Labor Party (Australia)	2	610
Labor Party (Great Britain)	16	608
Legitimists	11	610
	17	256
Levelers	17	327
Liberal Party	17	346
Liberal Republican Party	17	346
Liberal Unionist Party	17	346
Liberal Unionists	13	204
Liberty Party	17	350
	27	387
Loose Construction Party	16	3
Maximalists	18	456
Mensheviki	22	246
Minor parties and factions in America before 1860	27	529
Mugwumps	19	548
	27	322
National Liberal Party	28	645
National Party	13	426
National Republicans	27	350
Nationalists	11	610
	19	765
Octoberists	20	574
Octobrists	20	574
	24	43
Orleanists	11	610
Parties, American, before 1789	27	528
Party leaders	21	359
Party organization in legislative bodies	21	358
machinery of	21	359
purposes of	21	358
Peace Democrats	2	43
Peace Republicans	27	349
People's Party	1	555
	21	560
Pewter-Muggers	21	700
Political Party system, American	25	517
	27	528
Political parties, Great Britain	13	200
	13	203
Italian	15	475
Russian	24	43
Political parties and the World War	22	309
Populist Party	21	560
	27	530
Progressive Party	22	636
	23	684
	27	325
	27	530
Progressives	22	637
Prohibition Party	22	639
	27	530
Republican Party	11	310
	22	312
	23	391
	27	529
Silver Grey Whigs	11	211
Sinn Fein	25	40
Social Democratic Party	22	246
Socialism	25	191
Socialist Labor Party	27	530
Socialist organizations, Russian	24	43
Soviets	25	318
Strict Construction Party	16	3

Political Parties—cont'd	Vol.	Page
Stundists	25	754
Swiss Socialists	11	680
Tory Party	14	290
	26	715
Union Labor Party	27	530
United States, political parties in	27	528
War, Democrats	14	509
	28	677
Whigs	13	200
	27	350
	27	381
	27	528
	29	255
Whips	13	207
Workmen's International Party	11	627
Young Czech Party	13	458
Young England	29	652
Young Germany	29	652
Young Ireland	29	652

Revenues and Finances

Adam Smith's argument	22	674
Assessment	2	421
Assessor	2	422
Bonds, government	4	210
municipal	4	211
Budget	4	677
Budget system	22	758
Budgetary practice	22	757
Budgets, American	4	678
city	4	680
county	4	679
national	4	678
of Canadian provinces	5	470
State and local	4	679
foreign national	4	681
city	4	682
Civil list	7	1
Civil War income tax	14	744
Customs duties	8	338
	26	269
	27	24
	27	424
Debts, public	8	547
advantages of	8	549
classification of	8	550
disadvantages of	8	549
Direct taxation, Canadian	5	466
Direct taxes	9	143
Distilling industry, revenues from	9	186
Dominion lands, sale of	5	467
Dominion notes	5	468
Dominion subsidy	5	470
Duty	9	441
	22	672
Exchequer	10	619
bills	10	619
tallies	10	619
Excise	10	619
Federal income tax	9	143
Federal income tax of 1894	14	744
Finance, public	22	754
Franchise tax	11	752
Franchise, taxing of	11	753
Free trade	12	44
	13	201
	13	203
Funded debts	8	550
Head money	14	27
Import, system, British	26	268
Imposts	14	727
Income tax	1	557
	14	741

Revenues and Finances—cont'd	Vol.	Page
Income tax	15	695
	27	428
history of	14	742
of 1913	14	744
practical results of	14	745
proportional	22	756
United States	14	743
Indirect taxes	9	143
Inheritance taxes	15	183
	22	756
Insurance tax	15	200
Internal revenue	4	356
	27	424
	27	425
Internal revenue system	15	249
International money orders	22	434
Land tax	16	699
Lottery	17	670
Money order system	22	424
Morill tariff	22	672
Municipal debts	19	573
	19	583
Municipal revenues	5	466
Municipal revenues and taxation	19	583
Municipal trading	13	221
Octroi	9	143
	20	575
Postal money order service	22	432
Postal notes issued	22	434
Postal savings system	22	436
Prohibitive duties	22	640
Proportional tax	22	756
Protective duties	22	674
Protective tariff	22	675
first	26	468
Provincial finance, Canada	5	469
Publicani	22	783
Public finance, Canada, 1867-1917	5	466
Repudiation	23	406
Resumption	23	422
Revenues and finances of:		
Alabama	1	302
Argentina	2	218
Arizona	2	252
Arkansas	2	258
Australia	2	602
Bolivia	4	189
Brazil	4	439
California	5	210
Canada	5	459
	5	466
	5	470
Colombia	7	282
Colorado	7	320
Connecticut	7	351
Costa Rica	8	43
Cuba	8	286
Delaware	8	612
Denmark	8	681
Federated Malay States	11	87
Florida	11	372
France	11	704
Georgia	12	486
Germany	12	599
Great Britain	13	243
	14	742
Greece	13	377
Hawaii	14	2
Idaho	14	657
Illinois	14	690
India	15	8
Indiana	15	34
Iowa	15	298
Ireland	15	313

Revenues and Finances—cont'd	Vol.	Page
Italy	15	545
Japan	15	700
	15	711
Java	15	757
Kansas	16	295
Kentucky	16	368
Louisiana	17	682
Maine	18	146
Maryland	18	354
Massachusetts	18	404
Mexico	18	754
Michigan	19	24
Minnesota	19	208
Mississippi	19	244
Missouri	19	256
Montana	19	391
Morocco	19	468
Nebraska	20	27
Netherlands	20	90
Nevada	20	108
New Brunswick	20	117
Newfoundland	20	270
New Hampshire	20	129
New Jersey	20	141
New Mexico	20	150
New York	20	193
New Zealand	20	251
Nicaragua	20	304
North Dakota	20	422
Norway	20	438
Nova Scotia	20	464
Ohio	20	613
Oklahoma	20	637
Oregon	20	779
Panama	21	231
Pennsylvania	21	523
Peru	21	647
Porto Rico	22	402
Rhode Island	22	467
Russia	24	48
Saskatchewan	24	309
Scotland	24	432
Serbia	24	580
South Carolina	25	292
Spain	25	330
Tennessee	26	423
Texas	26	463
United States	27	342
	27	374
	27	397
	27	423
Venezuela	27	731
Vermont	28	22
Victoria	28	71
Virginia	28	119
Washington	28	784
West Virginia	29	212
Wisconsin	29	421
Wyoming	29	586
Revenues from crown lands, Canada	5	469
Revenue Cutter Service, United States	23	443
Revenue and expenditure accruals	19	571
Revenues, public	22	755
Rogue money	23	632
Ship money	24	723
Single tax	25	35
Single taxers	22	755
Sinking fund	8	551
Stamps, postage	25	475
State revenue stamps	21	738
Tariff	26	268
administration in the United States	26	270
movement, British	13	340
of 1842	22	672
of 1909, Payne-Aldrich	1	556

Revenues and Finances — cont'd

	Vol.	Page
Tariff of 1913	22	672
policy, German	26	269
Tax benefit	22	756
Tax system, actual	22	756
American	26	293
Taxation	22	755
	25	512
	26	287
canons of	22	755
differentiated	26	292
effects of	26	290
equality of	26	291
function of	26	288
graduated	26	292
history of	26	289
incidence of	26	290
influence of	26	290
limits of	26	289
nature of	26	288
norm of	26	291
power of	19	592
principles of	26	291
reason of	26	288
uniformity of	26	291
university, principle of	26	292
Taxes	25	512
	27	428
classification of	26	293
Textile imports, 1800	9	359
Toll	26	675
Tribute	27	53
Trinoda necessitas	27	69
War taxes	11	214
Window tax	29	385
Zollverein	29	723

Statesmen and Diplomats

UNITED STATES

	Vol.	Page
Adams, Charles Francis	1	119
Adams, Henry Cullen	1	121
Adams, John	1	121
Adams, John Quincy	1	123
Ames, Fisher	1	569
Andrew, John Albion	1	673
Arthur, Chester Alan	2	354
Bacon, Robert	3	25
Badger, George Edmund	3	34
Baker, Newton Diehl	3	60
Barbour, James	3	238
Bard, Thomas Robert	3	243
Barrett, John	3	277
Barry, William Taylor	3	286
Bayard, Thomas Francis	3	362
Bell, John	3	476
Bissell, Wilson Shannon	4	22
Black, Jeremiah Sullivan	4	30
Blackburn, Joseph Clay Styles	4	40
Blaine, James Gillespie	4	52
Blair, Montgomery	4	54
Bledsoe, Jesse	4	74
Bliss, Cornelius Newton	4	87
Bonaparte, Charles Joseph	4	208
Boutwell, George Sewell	4	356
Bradford, William	4	386
Branch, John	4	409
Breckenridge, John	4	457
Breckinridge, John	4	457
Breckinridge, John Cabell	4	457
Browning, Orville Hickman	4	620
Bryan, Charles Page	4	646
Bryan, William Jennings	4	646

Statesmen and Diplomats — cont'd

	Vol.	Page
Buchanan, James	4	659
Burleson, Albert Sidney	5	49
Burr, Aaron	5	63
Cabot, George	5	126
Calhoun, John Caldwell	5	194
Calhoun, William James	5	194
Cameron, James Donald	5	263
Cameron, Simon	5	264
Carlisle, John Griffin	5	618
Cass, Lewis	5	705
Chase, Samuel Portland	6	343
	27	423
Choate, Joseph Hodges	6	580
Christiancy, Isaac Peckham	6	615
Clay, Henry	7	66
Cleveland, Grover	7	92
Colfax, Schuyler	7	249
Conkling, Roscoe	7	523
Cox, Jacob Dolson	8	140
Cox, James M	8	140
Daniel, John Warwick	8	452
Daniels, Josephus	8	504
Davis, Jefferson	8	509
Dexter, Samuel	9	51
Dickinson, Donald McDonald	9	83
Dickinson, Jacob McGavock	9	84
Dinsmore, Hugh Anderson	9	130
Dix, John Adams	9	209
Dix, John Alden	9	209
Douglas, Stephen Arnold	9	279
Duane, William John	9	368
Eaton, John Henry	9	517
Edwards, Ninian	9	712
Egan, Maurice Francis	9	720
Ellis, John Willis	10	256
Eppes, John Wayles	10	439
Etheridge, Emerson	10	536
Eustis, James Biddle	10	585
Evarts, William Maxwell	10	594
Everett, Edward	10	597
Ewing, Thomas	10	617
Fairbanks, Charles Warren	10	716
Fay Theodore Sedgwick	11	72
Felch, Alpheus	11	98
Fenton, Reuben Eaton	11	117
Fernald, Bert M	11	128
Ferry, Orris Standford	11	142
Fessenden, William Pitt	11	152
Fillmore, Millard	11	210
Fish, Hamilton	11	265
Fish, Nicholas	11	266
Flint, Charles Ranlett	11	357
Floyd, John Buchanan	11	400
Foote, Henry Stuart	11	458
Foote, Samuel Augustus	11	458
Forward, Walter	11	525
Foster, John Watson	11	529
Foster, Lafayette Sabine	11	529
Fox, Williams Carlton	11	565
Franklin, Benjamin	12	8
Frye, William Pierce	12	140
Gallatin, Abraham Alfonse Albert	12	241
Gallinger, Jacob H(arold)	12	248
Gardner, Augustus Peabody	12	289
Garfield, James Abram	12	290
Garfield, James Rudolph	12	291
Garland, Augustus Hill	12	293
Gaynor, William Jay	12	348
George, James Zachariah	12	479
Gerard, James Watson	12	493

Statesmen and Diplomats — cont'd

	Vol.	Page
Gerry, Elbridge	12	623
Gibson, Randall Lee	12	645
Giddings, Joshua Reed	12	645
Giles, William Branch	12	653
Gilman, John Taylor	12	656
Gilman, Nicholas	12	656
Gilmore, Joseph Albree	12	657
Gilpin, William	12	658
Gist, William Henry	12	668
Glass, Carter	12	687
Glynn, Martin H	12	734
Goebel, William	12	751
Graham, William Alexander	13	108
Grant, Ulysses S	13	135
Greenhalge, Frederick Thomas	13	431
Gresham, Walter Quinton	13	462
Griffin, Simon Goodell	13	470
Grow, Galusha Aaron	13	497
Hallett, Benjamin Franklin	13	647
Hamilton, Alexander	13	654
Hamilton, James	13	658
Hamlin, Hannibal	13	663
Hampden, John	13	667
Hancock, John	13	670
Hansemann, David	9	154
Harding, Warren G	13	699
Hardy, Arthur Sherburne	13	705
Harnett, Cornelius	13	719
Harris, Townsend	13	725
	15	736
Harrison, Benjamin	13	728
Harrison, Thomas Skelton	13	730
Harrison, William Henry	13	730
Hay, John Milton	14	13
Hayes, Rutherford Birchard	14	18
Hendricks, Thomas A	14	95
Herrick, Myron T	14	146
House, Edward Mandell	14	444
Hughes, Charles Evans	14	477
Hunter, Robert Mercer Taliaferro	14	514
Ide, Henry Clay	14	660
Ingersoll, Charles Jared	15	129
Jackson, Andrew	15	574
Jay, John	15	760
	15	763
Jefferson, Thomas	16	1
Jenckes, or Jenks, Joseph	16	12
Jenkins, Charles Jones	16	13
Jerome, William Travers	16	27
Johnson, Andrew	16	167
Johnson, Cave	16	169
Johnson, Herschel Vespasian	16	172
Johnson, Richard Mentor	16	173
Johnson, Thomas	16	180
Johnston, Samuel	16	186
Jones, James Kimbrough	16	198
Judd, Norman Buel	16	231
Kelley, A. M	15	551
Kendall, Amos	16	351
Kenyon, William Squire	16	373
Kerens, Richard C	16	376
Kern, John Worth	16	379
Kerr, Michael Crawford	16	380
Key, David McKendree	16	385
Keyes, Henry Wilder	16	388
King, Dan	16	429
King, Horatio	16	431
King, John Alsop	16	431
King, Preston	16	432

Statesmen and Diplomats — cont'd

	Vol.	Page
King, Rufus	16	432
King, William	16	433
Kirkwood, Samuel Jordan	16	459
Knox, Philander Chase	16	497
La Follette, Robert Marion	16	572
Lamar, Mirabeau Buonaparte	16	666
Lamont, Daniel Scott	16	678
Lane, Franklin Knight	16	713
Lane, Henry Smith	16	713
Lane, James Henry	16	713
Langdon, John	16	717
Lansing, Robert	16	736
Lear, Tobias	17	179
Leishmann, John G. A.	17	271
Lewis, Morgan	17	335
Lincoln, Abraham	17	445
Livingston, Edward	17	541
Lodge, Henry Cabot	17	589
Logan, George	17	595
Logan, John Alexander	17	595
Loomis, Francis B.	17	652
Lowell, James Russell	17	700
McAdoo, William Gibbs	18	4
McKinley, William	18	72
McLane, Robert Milligan	18	75
MacVeagh, Franklin	18	91
MacVeagh, Wayne	18	92
Madison, James	18	98
Maney, George	18	209
Marsh, George P.	15	550
	18	323
Marshall, Thomas Riley	18	328
Meyer, George von Lengerke	19	2
Monroe, James	19	371
Morganthau, Henry	19	457
Morton, Levi Parsons	19	490
Nash, Abner	19	712
Nash, George Kilburn	19	712
Nelson, John	15	550
Newberry, Truman Henry	20	260
Newlands, Francis Griffith	20	273
Niles, John Milton	20	348
Niles, Nathaniel	20	348
Norris, George William	20	407
Odell, Benjamin Barker, Jr.	20	581
Ogden, Aaron	20	604
Olney, Richard	20	671
Palmer, Thomas Witherell	21	213
Payne, Henry B.	21	433
Peck, George Wilbur	21	462
Peffer, William Alfred	21	471
Peixotto, Benjamin Franklin	21	475
Pendleton, Edmund	21	501
Penfield, Frederic Courtland	21	506
Penn, John	21	512
Penn, William	21	514
Pennypacker, Samuel Whitaker	21	539
Phelps, Edward John	21	718
Phelps, William Walter	21	720
Pierce, Franklin	22	73
Pinckney, William	15	550
	22	102
Polk, James Knox	22	317
Pomeroy, Theodore Medad	22	341
Porter, Alexander	22	388
Porter, Horace	22	391
Proctor, Redfield	22	631
Pryor, Roger Atkinson	22	724
Ramsey, Alexander	23	206

Statesmen and Diplomats — cont'd

	Vol.	Page
Randall, Alexander Williams	23	207
Randolph, Edmund Jennings	23	208
Randolph, John	23	209
Rantoul, Robert, Jr.	23	214
Redfield, William Cox	23	287
Reed, Thomas Brackett	23	293
Reed, William Bradford	23	294
Reid, Whitelaw	23	331
Reinsch, Paul Samuel	23	335
Ricard, John	23	509
Richards, William	23	492
Richardson, William Adams	23	496
Richman, Irving Berdine	23	499
Roberts, Edmund Quincy	23	568
Roosevelt, Theodore	23	680
Root, Elihu	23	686
Ross, Jonathan	23	704
Russell, William Eustis	23	787
St. John, John Pierce	24	133
Sands, William Franklin	24	257
Sanford, Henry Shelton	24	260
Schenck, Robert Cumming	24	367
Schuyler, Eugene	24	408
Seddon, James Alexander	24	522
Seward, George Frederick	24	625
Seward, William Henry	24	625
Sewell, William Joyce	24	627
Seymour, Horatio	24	633
Seymour, Thomas Hart	24	634
Shaw, Leslie Mortier	24	665
Shellabarger, Samuel	24	687
Sherman, James Schoolcraft	24	703
Sherman, John	24	704
Sherrill, Charles Hitchcock	24	707
Sickles, Daniel Edgar	24	785
Smith, Hoke	25	120
Stanton, Edwin McMasters	25	485
Stephens, Alexander Hamilton	25	618
Steunenburg, Frank	25	634
Stevens, John Leavitt	25	637
Stevens, Thaddeus	25	637
Stevenson, Adlai Ewing	25	639
Stevenson, Andrew	25	639
Storer, Bellamy	25	696
Straus, Oscar	25	719
Sumner, Charles	26	15
Sumner, Increase	26	18
Sutter, John Augustus	26	104
Swanson, Claude Augustus	26	110
Taft, Alphonso	26	212
Taft, William Howard	26	212
Taney, Roger Brooke	26	240
Taylor, George	26	298
Taylor, Hannis	26	298
Taylor (James), Bayard	26	296
Taylor, Zachary	26	302
Tefft, Benjamin Franklin	26	324
Teller, Henry Moore	26	401
Thomas, William Widgery	26	574
Throop, Enos Thompson	26	296
Thurman, Allen Granbery	26	602
Thurston, John Mellen	26	602
Tilden, Samuel Jones	26	623
Tompkins, Daniel D.	26	683
Toucey, Isaac	26	717
Tower, Charlemagne	26	723
Townsend, Lawrence	26	727

Statesmen and Diplomats — cont'd

	Vol.	Page
Treat, Robert	27	24
Trescot, William Henry	27	49
Tripp, Bartlett	27	76
Trist, Nicholas Philip	27	77
Tyler, John	27	232
Uhl, Edwin Fuller	27	253
Van Buren, Martin	27	663
Vignaud, Jean Henry	28	84
Waller, Thomas McDonald	28	241
Washburn, Cadwallader Calden	28	770
Washburn, Charles Ames	28	770
Washburn, Elihu Benjamin	28	771
Washburn, Israel, Jr.	28	771
Washburn, William Drew	28	772
Washington, George	28	773
Webb, James Watson	29	142
Webster, Daniel	29	146
Wheaton, Henry	29	246
Wheeler, William Almon	29	252
White, Andrew Dickson	29	264
White, Henry	29	266
Whitlock, Brand	29	279
Whitman, Charles Seymour	29	280
Whitney, William Collins	29	284
Whitridge, Frederick Wallingford	29	285
Wickersham, George Woodward	29	293
Willard, Joseph Edward	29	326
Willey, Waltman T.	29	329
Williams, Benjamin	29	338
Williams, George Henry	29	340
Williams, John Sharp	29	342
Williams, John Stuart	29	343
Wilmot, David	29	355
Wilson, Henry	29	358
Wilson, Henry Lane	29	359
Wilson, James	29	360
Wilson, William Bauchop	29	363
Wilson, Woodrow	29	363
Winthrop, Beekman	29	405
Winthrop, Robert Charles	29	406
Wirt, William	29	417
Wolcott, Oliver	29	436
Wolcott, Roger	29	437
Wood, Leonard	29	473
Woodford, Steward Lyndon	29	495
Wright, Luke E.	29	569
Yates, Robert	29	617

UNITED KINGDOM

	Vol.	Page
Abbott, Charles	1	14
Aberdeen, 4th Earl of	1	38
Ashbourne, Edward Gibson	2	384
Ashburton, Alexander Baring	2	384
Asquith, Herbert Henry	2	408
Auckland, William Eden	2	533
Aungerville, Richard	2	553
Balfour, Arthur James	3	79
Balfour, Gerard William	3	80
Beaconsfield, Benjamin Disraeli	3	373
Bolingbroke, Henry St. John	4	181
Brodrick, William St. John Freemantle	4	573
Brougham, Henry	4	599
Broughton, Lord	4	600
Burke, Edmund	5	45
	5	46
Burleigh, William Cecil	5	49
Bute, John Stuart	5	77
Buxton, Sidney Charles	5	93

Statesmen and Diplomats — cont'd

	Vol.	Page
Campbell, John	5	279
Campbell-Bannerman, Sir Henry	5	281
Canning, Charles John	5	504
Canning, George	5	504
Carson, Sir Edward Henry	5	675
Chamberlain, Austen	6	261
Chamberlain, Joseph	6	260
De Bury, Richard	2	553
De Valera, Eamonn	25	42
Devonshire, Spencer Compton Cavendish, Duke of	9	42
Drage, Geoffrey	9	293
Durham, John George Lambton	9	424
Elgin, James Bruce	10	237
Elgin, Victor Alexander Bruce	10	237
Erskine, David	27	371
Essex, Arthur Capel	10	515
Eversley, George John Shaw-Lefevre	10	603
Ford, Sir Francis Clare	11	464
Forster, William Edward	11	495
Frere, Sir Henry Bartle Edward	12	88
Geddes, Sir Eric Campbell	12	353
George, David Lloyd	12	476
Gladstone, Herbert John	12	677
Gladstone, William-Ewart	12	677
Glenelg, Charles Grant	12	715
Godolphin, Sidney	12	747
Gooch, Sir William	13	50
Goschen, George Joachim, Viscount	13	68
Goschen, Sir William Edward	13	68
Granville, Granville George Levenson-Gower	13	139
Grenville, George	13	461
Grey, Albert Henry George	13	464
Grey, Sir Edward	13	465
	28	268
Grey, Henry George	13	464
Haldane of Cloan	13	630
Harcourt, William George Granville Venables Vernon	13	694
Hobhouse, John Cam	4	600
Huskisson, William	14	526
Kimberley, John Wodehouse	16	415
Landsdowne, Henry Charles Keith Fitzmaurice, 5th Marquis of	16	785
Lauderdale, James M	17	100
Law, Andrew Bonar	17	121
Liverpool, Robert Banks Jenkinson	17	536
Lloyd-George, David	12	476
Loch, Henry Brougham	17	558
Loftus, Augustus William Frederick Spencer	17	593
Londonderry, Charles William Stewart Vane	17	634
Lyndhurst, John Singleton Copley	17	778
Lyons, Richard Bickerton Pemell	17	781
Lytton, Edward Robert Bulwer-Lytton	17	789
Merivale, Herman	18	675

Statesmen and Diplomats — cont'd

	Vol.	Page
Norfolk, Charles Howard, 11th Duke of	20	399
Norfolk, Henry Fitzalan-Howard, 13th Duke of	20	400
Norfolk, Henry Granville Fitzalan-Howard, 14th Duke of	20	400
Norfolk, Henry Howard, 7th Duke of	20	400
Normanby, Constantine Henry Phipps, 1st Marquis of	20	405
North, Frederick, 2d Earl of Guilford	20	409
Northcote, Sir Stafford Henry	20	428
Northington, Robert Henley, 1st Earl of	20	429
Nottingham, Heneage Finch, 1st Earl of	20	460
Palgrave, William Gifford	21	204
Palmerston, Henry John Temple	21	214
Parkes, Sir Harry Smith	21	331
Pauncefote, Julian	21	423
Peel, Sir Robert	21	468
Pownall, Thomas	22	498
Poynings, Sir Edward	22	499
Raglan, Fitzroy Henry Somerset	23	133
Rawlinson, Sir Henry Creswicke	23	237
Richmond, Charles Lennox, 3d Duke of	23	499
Robinson, Sir Hercules George Robert	23	581
Rockingham, Chas. Watson-Wentworth	23	600
Rosebery, Archibald Philip Primrose	23	695
Russell, George William Erskine	23	785
Sackville, Lionel Sackville Sackville-West	24	89
Sackville, Thomas	24	89
Sadleir, Sir Ralph	24	100
Sadler, Sir Ralph	24	100
St. John, Sir Spencer	24	183
Salisbury, Robert Arthur Talbot Gascoyne Cecil	24	185
Sandwich, John Montagu	24	259
Selborne, Roundell Palmer, 1st Earl of	24	535
Shaftesbury, Anthony Ashley Cooper	24	639
Shelburne, William Petty Fitzmaurice	24	680
Sydenham, Charles Edward Poulett Thomson	26	155
Temple, Sir William	26	407
Thornton, Sir Edward	26	588
Thurloe, John	26	601
Thurlow, Edward	26	602
Townshend, Charles	26	727
	26	728
Trevelyan, Sir Charles Edward	27	49
Trevor, Sir John	27	52
Truro, Thomas Wilde	27	107
Villiers, Charles Pelham	28	92
Wade, Sir Thomas Francis	28	206
Wakefield, Edward Gibbon	28	217
Walpole, Sir Robert	28	245
Walpole, Spencer Horatio	28	246
Warwick, Richard Neville, Earl of	28	769

Statesmen and Diplomats — cont'd

	Vol.	Page
Wellington, Arthur Wellesley, Duke of	29	180
Westbury, Richard Bethell	29	220
Whitelocke, Bulstrode	29	277
Windham, William	29	380
Wotton, Sir Henry	29	563
Wyndham, George	29	582
Wyndham, Sir William	29	582
Young, John	29	651

CANADA

	Vol.	Page
Abbott, Joseph Caldwell	1	18
Archibald, Adams George	2	168
Aylesworth, Allen Bristol	2	684
Baldwin, Robert	3	77
Ballantyne, Charles Colquhoun	3	97
	8	98
Beaven, Robert	3	397
Blair, Andrew George	4	53
Blake, Edward	4	55
Blondin, Pierre Edouard	4	104
Borden, Frederick	4	266
Borden, Robert Laird	4	266
Bowell, Mackenzie	4	361
Brodeur, Louis Philippe	4	572
Brown, George	4	605
Calder, James Alexander	5	186
Campbell, Sir Alexander	5	277
Carling, Sir John	5	617
Carter-Cotton, Francis	5	679
Cartier, George Etienne	5	684
Cartwright, Sir Richard John	5	687
Carwell, Frank Broadstreet	5	689
Doherty, Charles Joseph	9	233
Dorion, Sir Antoine Aimé	9	266
Edgar, James David	9	582
Ellis, John Valentine	10	256
Fielding, William Stevens	11	186
Fisher, Sydney Arthur	11	281
Forget, Amédée Emmanuel	11	488
Foster, George Eulas	11	528
Foy, James Joseph	11	567
Fulton, Frederick John	12	157
Galt, Alexander Tilloch	12	252
Gibson, John Morison	12	645
Girard, Marc Amable	12	663
Gouin, Jean Lomar	13	82
Graham, George Perry	13	107
Greenway, Thomas	13	440
Hendrie, John S	14	95
Huntington, Lucius Seth	14	518
Joly de Lotbinière, Sir Henri Gustave	16	193
Kenny, Edward	16	358
King, William Lyon Mackenzie	16	434
La Fontaine, Sir Louis Hippolyte	16	573
Laird, David	16	654
Langevin, Sir Hector Louis	16	719
Lehmann, Peter Martin Orla	17	260
Lemieux, Rudolphe	17	279
Meredith, Sir William Ralph	18	672
Norquay, John	20	406
Norris, Tobias Crawford	20	407
Oliver, Frank	20	665
Palmer, Herbert James	21	212
Pelletier, Sir Charles Alphonse Pantaléon	21	486

Statesmen and Diplomats — cont'd

	Vol.	Page
Perley, George Halsey	21	601
Perley, Moses Henry	21	601
Perry, Peter	21	607
Robinson, John Beverley	23	562
Rose, John	23	698
Ross, George William	23	703
Scott, Sir Richard William	24	440
Scott, Walter	24	445
Semlin, Charles Augustus	24	555
Sicotte, Louis Victor	24	785
Sifton, Clifford	24	797
Taillon, Sir Louis Oliver	26	216
Tarte, Joseph Israel	26	277
Tupper, Sir Charles	27	167
Tupper, Sir Charles Hibbert	27	168
Walkem, George Anthony	28	226
Warburton, Alexander Bannerman	28	696
Wentworth, William Charles	29	196
White, Sir William Thomas	29	269
Whitney, Sir James Pliny	29	283
Wilmot, Robert Duncan	29	355
Winter, Sir James Spearman	29	402
Young, William	29	652

FRANCE

	Vol.	Page
Argout, Antoine Maurice Apollinaire, Count d'	2	227
Audiffert - Pasquier, Edmé Armand Gaston, Duc d'	2	535
Baroche, Pierre Jules	3	270
Barrot, Camille Hyacinthe Odilon	3	282
Barthou, Louis	3	292
Bernis, François Joachim de Pierres de	3	575
Boulanger, Georges Ernest Jean Marie	4	327
Boulay, De La Meurthe, Antoine Jacques Claud Joseph	4	327
Bourgeois, Leon Victor Auguste	4	350
Briand, Aristide	4	488
Broglie, Achille Léonce Victor, Duc de	4	574
Broglie, Jacques Victor Albert, Duc de	4	574
Buffet, Louis Joseph	4	695
Caillaux, Joseph	5	146
Calonne, Charles Alexandre de	5	230
Cambacérès, Jean Jacques Régis de, Duke of Parma	5	244
Carnot, Lazare Hippolyte	5	643
Carnot, Lazare Nicolas Marguerite	5	643
Clémenceau Georges Benjamin Eugene	7	83
Delcassé, M. Théophile	8	617
	24	54
Drouyn De Lhuis, Edouard	9	341
Dubois, Guillaume	9	374
Dubost, Antonin	9	375
Dufaure, Jules Armand Stanislas	9	386

Statesmen and Diplomats — cont'd

	Vol.	Page
Ferry, Jules François Camille	11	142
Floquet, Charles Thomas	11	361
Flourens, Leopold Emile	11	389
Freycinet, Charles Louis de Saulces de	12	98
Gabriac, Paul Joseph de Cadoine	12	214
Gambetta, Léon Michel	12	261
Genest, Edmond Charles Edouard	12	387
Genet, Edmond Charles Edouard	12	387
Gensonné, Armand	12	401
Gérard, Conrad Alexandre	12	493
Gérard De Rayneval, Joseph Mathias	12	494
Gobineau, Joseph Arthur	12	742
Goblet, René	12	743
Grégoire, Henri	13	443
Grevy, François Paul Jules	13	464
Guizot, François Pierre Guillaume	13	542
Joigneaux, Pierre	16	188
Jordan, Camille	16	207
Klotz, Louis Lucien	16	475
Lakanal, Joseph	16	656
Lesseps, Ferdinand	17	316
Lockroy, Etienne Auguste Edouard	17	563
Loubet, Emile François	17	671
Nicot, Jean	20	381
Ollivier, Olivie Émile	20	667
Passy, Frédéric	21	372
Pelissier, Jean Jacques Aimable	21	485
Pichon, Stéphen (Jean Marie)	11	742
	22	65
Picquart, Georges	22	69
Rambaud, Alfred Nicholas	23	200
Rattazzi, Urbano	23	228
Rémusat, Charles François Marie	23	366
Rewbell, Jean François	23	450
Ribot, Alexandre Felix Joseph	23	483
Richelieu, Armand Jean du Plessis de	23	496
Robespierre, Maximilien François Marie Isidore	23	574
Roland De La Platière, Jean Marie	23	633
Rouher, Eugene	23	721
Rouvier, Maurice	23	728
Royer-Collard, Pierre-Paul	23	738
Saint-Cyr, Laurent Gouvion	24	127
Sieyès, Emmanuel Joseph	24	796
Talleyrand-Périgord, Charles Maurice de	24	227
Thiers, Louis Adolphe	26	552
Viviani, René	28	156
Waddington, William Henry	28	205
Waldeck - Rousseau, Pierre Marie	28	220

GERMANY

	Vol.	Page
Beckerath, Herman von	3	406
Bernstorff, Johann Heinrich A.	3	576
Bethmann-Hollweg, Moritz August	3	592

Statesmen and Diplomats — cont'd

	Vol.	Page
Bethmann-Hollweg, Theodore Friedrich Alfred von	3	592
Beuth, Peter Christian Wilhelm	3	597
Bismarck - Schönhausen, Herbert Nikolaus von	4	17
Bismarck - Schönhausen, Otto Eduard Leopold von	4	17
	28	262
Bitter, Karl Hermann	4	24
Bosse, Robert	4	291
Bülon, Bernhard, Prince von	5	18
Caprivi, Georg Leo, Graf von	5	572
Duckwitz, Arnold	9	381
Eulenburg, Botho	10	573
Friedenthal, Karl Rudolf	12	103
Geffcken, Friedrich Heinrich	12	357
Hardenberg, Karl August	13	698
Klüber, Johann Ludwig	16	475
Lasker, Eduard	16	757
Nebenius, Karl Friedrich	20	23
Pourtalès, (Graf) Friedrich von	22	473
Sternburg, Herman von Speck	25	631
Windthorst, Ludwig	29	386

AUSTRIA-HUNGARY

	Vol.	Page
Aehrenthal, Baron Alois Lexa von	1	173
	15	553
Apponyi, Albert	2	93
Apponyi, György (George)	2	94
Auersperg, Adolf Wilhelm Daniel	2	539
Auersperg, Anton Alexander	2	539
Ausperg, Karlos	2	559
Badeni, Casimir Felix	3	33
Banffy, Baron Desiderius	3	141
Baumgartner, Andreas von	3	351
Beust, Friedrich Ferdinand	3	597
Bruck, Karl Ludwig	4	627
Burian Von Rajecg, Baron Stefan	5	44
	15	555
Eötvös, Joseph, Baron von	10	409
Eötvös, Roland	10	410
Firmian, Karl Joseph	11	258
Gautsch Von Frankenthurn, Paul	12	344
Kállay, Benjamin von	16	285
Kalnoky, Gustav, Count	16	285
Károlyi, Counts	16	310
Kaunitz, Wenzel Anton Dominik, Prince	16	321
Khuen-Belasi-Hedevary, Charles (Karoly)	16	396
Kielmansegg (Count), Erich von	16	407
Kossuth, Francis	16	532
Taaffe, Eduard Francis Joseph von	26	196
Tisza, Koloman Borosjeno	26	646
Tisza, Stephan	26	646

Statesmen and Diplomats — cont'd

	Vol.	Page
ITALY		
Azeglio, Massimo Taparelli	2	688
	15	458
Boselli, Paolo	4	286
Cavour, Camillo Benso	6	152
	15	458
	15	476
Crispi, Francesco	8	210
	15	476
Fortis, Alessandro	11	522
Frapolli, Lodovico	12	20
Genala, Francesco	12	367
Giolitti, Giovanni	15	553
Giuliano, Marquis di San	15	553
Guerrazzi, Francesco Domenico	13	525
	15	525
Guicciardini, Francesco, (Count)	13	532
La Farina, Guiseppe	16	572
Lambruschini, Luigi, Cardinal	16	675
La Marmora, Alfonso Ferrero, Marquis of	16	577
Luzzatti, Luigi	17	767
Orlando, Vittorio Emanuele	20	813
Pepoli, Gioacchino Napoleone	21	564
Ricasoli, Bettino	23	484
Rossi, Pellegrino Luigi Edoardo	23	710
Rudinì, Antonio Starabba di	23	753
Salandra, Antonio	15	554
	24	178
Visconti-Venosta, Emilio Marquis	28	133
Zanardelli Guiseppe	29	686
JAPAN		
Inouye, Kaoru	15	146
Itagaki, Taisuke	15	426
Ito, Hirobumi	15	558
	15	648
Iwakura, Tomoni	15	569
Kaneko, (Viscount) Kentaro	16	291
Kato, Yakaakira, Baron	16	316
Katsu, Awa	16	317
Katsura, Taro, Prince	16	317
Komura, Jutaro, Marquis	16	513
Mori, Arinori	19	458
Nobunaga	20	386
Okubo, Toshimitsu	20	641
Okuma, Shigenobu	20	642
Uchida, Yasuva	27	250
Yamagata, Aritomo	29	610
Yokoi, Heishiro	29	639
RUSSIA		
Abaza, Alexander Agrejevich	1	9
Bestuzhev - Ryumin, Alexes Petrovitch	3	588
Bezborodko, Alexander Andreyevitch, Prince	3	605
Cancrin, Georg	5	493
Engelhardt, Georg von	10	336
Gortchakoff, Alexander Mikhailovitch	13	67
Ignatieff, Nikolai Pavlovitch	14	671
Isvolsky, Alexander Petrovitch	15	425
Lambsdorf, Vladimir Nikolaevitch	16	684
Lamsdorff, Vladimir Nikolaevitch	16	684
Loris-Melikoff, Mikhail Tarielovitch Tainoff	17	664
Nicholas I, Pavlovitch	20	315
Nicholas II	20	315
Plehve, Viatcheslav Konstantinovitch	22	244
Pushkin, Alexander	23	82
Rosen, Roman Romanovitch	23	697
Sazonoff, Sergi Dimitrievich	24	345
Schuvaloff, Peter Andreievitch	24	408
Stolypin, Peter Arkadievitch	25	671
Witte, Sergei Yulievitch	29	433
SPAIN		
Aguilar y Correa, Antonio, Marqués de la Vega de Armijo	1	268
Azara, José Nicholás de	2	687
Calomarda, Francisco Tadeo	5	229
Calomarde, Francisco Tadeo	5	229
Canalejas, Don José	5	480
Canga Argüelles José	5	500
Canova del Castillo	5	528
Carvajal, Tomas José Gonzales	5	689
Christina, Maria	6	622
Figueras y Moracas, Estanislao	11	203
Jovellanos, Gaspar Melchior de	16	244
Ojéda, Emilio de	20	705
Olivarez, Gaspar de Guzman, Count of	20	663
Pedregal y Cañedo, Manuel	21	465
Prim, Juan	22	574
Rivas, Angel Pérez de Saavedra	23	546
Rosa, Francisco de Paula Martinez de la	23	688
Sagasta, Praxedes Mateo	24	107
Zorilla, Manuel Ruiz	29	731
OTHER COUNTRIES		
Achmet, Vefik Pasha	1	91
Araujo De Azevedo	2	137
Armansperg, Joseph Ludwig, Count von	2	265
Arriaga, Manoel de	2	329
Aspiroz, Manuel de	2	408
Auckland, George Eden	2	533
Avellaneda, Nicholas	2	672
Baez, Buenaventura	3	37
Barneveldt, Jan van Olden	3	268
Barrios, Gerardo	3	280
Barrios, Justo Rufino	3	280
Barrundia, José Francisco	3	284
Barton, Sir Edmund	3	297
Beernaert, Auguste Marie François	3	429
Bermudez, Remigio Morales	3	566
Bernstorff, Andreas Peter	3	576
Bibesco, Barbo Demetrius	3	612
Blanco, José Félix	4	60
Bolivar y Ponte	4	182
Bond, Sir Robert	4	209
Botha, Louis	4	313
Bowser, William John	4	368
Braga, Theophilo	4	391
Brand, Sir Jan Hendrik	4	410
Bratiano, Ion	4	420
Bratianu, Ion	4	420
Bulgaris, Demetrius	5	6
Calderon, Francisco Garcia	5	186
Calmon, Du Pin E Almeida Miguel	5	229
Campero, Narciso	5	283
Carrera, Rafael	5	664
Carvalho, José da Silva	5	689
Castro, Cipriano	6	19
Castro, José Maria	6	20
Cinna, Lucius Cornelius	6	686
Costa, Alfonso Augusto	8	39
Costa-Cabral, Antonio Bernardo da	8	40
De Groot, Hugo	13	490
Devaux, Paul Louis Isidor	9	36
Dhulip Singh (Maharajah)	9	53
Dhullep Singh (Maharajah)	9	53
Dickson, Sir James Robert	9	85
Dole, Sanford Ballard	9	234
Drago, Luis Maria	5	241
	9	293
Dragoumis, Stephan	9	297
Duffy, Sir Charles Gavan	9	387
Egaña, Juan	9	721
Escandon, Guillermo de Landa y	10	490
Escher, Johann Heinrich Alfred	10	494
Escher Von Der Linth, Hans Conrad	10	494
Essen, Hans Henrik, Count	10	513
Estrada Caberera, Manuel	10	525
Estrup, Jacob Bronnum	10	526
Eyzaguirre, Agustin	10	686
Fagel, Gaspar	10	710
Fagel, Hendrik	10	710
Fagel, Kaspar	10	710
Falcõn, Juan Crisóstoms	10	726
Feer-Herzog, Karl	11	95
Feijo, Diogo Antonio	11	96
Fernandez De Cordova, Diego	11	129
Fernandez Madrid, José	11	130
Fischer, Abraham	11	263
Fisher, Andrew	11	280
Flores, Venancio	11	366
Forrer, Ludwig	11	493
Fox, Sir William	11	564
Freire De Andrada, Gomes	12	56
Frére-Orban, Hubert Joseph Walther	12	88
Frey, Emil	12	98
Frias, Tomás	12	100
Fuad Pasha	12	141
Furrer, Jonas	12	198
Furtado, Francisco José	12	200
García Moreno, Gabriel	12	280
Geffrard, Fabre	12	357
Goblet, Albert Joseph	12	742
Godoy, José François	12	747
Goldie, Sir George Dashwood Vaubman	13	30
Gonzales, Manuel	13	49
Griffenfeldt, Count Peder Schumacher	13	469
Grotius, Hugo	13	490

Statesmen and Diplomats — cont'd

	Vol.	Page
Gruić, Sava	13	504
Guirior, Manuel Marqués de	13	540
Gyllenborg, Karl	13	587
Infante, José Miguel	15	116
Jameson, Leander Starr	15	608
Jenatsch, Georg, or Jürg	16	12
Jovanović, Vladimir	16	224
Juarez, Benito Pablo	16	227
Juarez Celman, Miguel	16	227
Judd, Garritt Parmlee	16	231
Juel, Jens	16	238
Kanaris, Konstantine	16	289
Karatheodori, Alexander	16	309
Kiamil Pasha	16	398
Kingston, Charles Cameron	16	447
Kong Ch'in Wang	16	556
Kreittmayr, Wigulläus Xavier Aloys	16	540
Kruger, Stephanus Johannes Paulus	16	547
Kung Ts'in Wang, or Kong Ch'in Wang	16	556
Kunundoros, Alexandros	16	555
Kuyper, Abraham	16	562
Lerdo De Tejada, Sebastian	17	311
Limantour, José Ives	17	439
Linares, José María	17	445
López, Carlos Antonio	17	653
López, José Hilario	17	653
López, Francisco Solano	17	653
Liu-Kun-Yi	17	527
Manco Inca I	18	203
Mariscal, Ignacio M	18	294
Nicholas I	20	314
Nubar Pasha	20	481
Nuñez, Rafael	20	499
Obaldia, José Domingo de	20	535
Oersted, Anders Sandöe	20	594
Omar I	20	680
Omar II	20	680
Palma, Thomas Estrada	21	211
Parkes, Sir Henry	21	331
Pashich, Nicola	21	365
Pashitch, Nicola	21	365
Pasitch, Nicola	21	365
Paz Soldán, Mariano Felipe	21	435
Peixoto, Floriano	21	475
Peña, Rogue Saenz	21	494
Pétion, Alexandre Sabes	21	672
Pombal, Sebastião José de Carvalho e Mello	22	340
Porras, Belisario	22	376
Potocki, Stanislas Kostka	22	448
Restrépo, José Manuel	23	422
Rhodes, Cecil John	23	471
Rocafuerte, Vincente	23	586
Rogier, Charles Latour	23	631
Santa Cruz, Andres	24	278
Santa Maria, Domingo	24	281
Santander, Francisco de Paula	24	283
Seddon, Richard John	24	523
See, Sir John	24	526
Trumbitch, Ante	27	104
Tseng, Marquis	27	118
Tsêng Ki-Tseh	27	118
Vogel, Sir Julius	28	163
Wanderley, João Mauricio	28	254
Wise, Bernhard Ringrose	29	426
Wu Ting-Fang	29	575
Yuan-Shih-Kai	29	671
Zaimis, Alexander	29	682
Zamojski, Andrzej	29	685

Statesmen and Diplomats — cont'd

	Vol.	Page
Zea, Francisco Antonio	29	690
Zedlitz, Karl Abraham	29	694
Zelaya, José Santos	29	697
Zuloaga, Felix	29	737

General Biographies

(Party and Legislative Leaders, Political Scientists, etc.)

UNITED STATES

	Vol.	Page
Adams, John Quincy	1	123
	15	577
Adams, John Quincy (2d)	1	125
Addicks, John Edward	1	130
Aiken, William	1	273
Alcorn, James Lusk	1	350
Aldrich, Nelson Wilmarth	1	355
Alger, Russell Alexander	1	395
Allen, Charles Herbert	1	412
Allen, Elisha Hunt	1	413
Allen, William	1	416
Allison, William Boyd	1	422
Bachelder, Nashum Josiah	3	16
Bacon, August Octavius	3	19
Bacon, John Edmund	3	24
Bailey, Joseph Weldon	3	50
Baily, Willis Joshua	3	52
Baird, Henry Carey	3	56
Banks, Nathaniel Prentiss	3	151
Barnes, William, Jr	3	267
Barnwell, Robert Woodward	3	270
Bartlett, Josiah	3	294
Bates, Barnabas	3	329
Bayard, James Asheton (1st)	3	361
Bayard, James Asheton (2d)	3	361
Bayly, Thomas Henry	3	366
Beale, Truxton	3	377
Beckham, John Crepps Wickliffe	3	408
Belcher, Jonathan	3	453
Belknap, William W	27	477
Bellamont, Richard Coote	3	479
Bellingham, Richard	3	487
Benjamin, Judah P	3	517
Benton, Thomas Hart	3	528
Berkeley, Sir William	3	555
Bidwell, John	3	688
Bingham, John Arende	3	715
Black, Frank Sweet	4	30
Black, James	4	30
Blair, Austin	4	53
Blair, Francis Preston	4	53
Blair, Henry William	4	54
Blanchard, Newton Crain	4	59
Bland, Richard Parks	4	61
Bleas, Coleman Livingston	4	74
Bliss, Aaron Thomas	4	87
Bliss, Porter Cornelius	4	88
Blount, James H	4	118
Bocock, Thomas S	4	143
Boies, Horace	4	164
Borah, William Edgar	4	263
Bourne, Jonathan	4	353
Boutelle, Charles Addison	4	354
Bovee, George	4	357
Bowdoin, James	4	360
	4	361

General Biographies — cont'd

	Vol.	Page
Bowen, Herbert Wolcott	4	362
Boyd, Linn	4	373
Brackenridge, Henry Marie	4	382
Brackett, John Quincy Adams	4	382
Bradford, Gamaliel	4	385
Bradley, William O'Connell	4	388
Brady, James Henry	4	390
Bragg, Edward Stuyvesant	4	392
Brandegee, Frank Bosworth	4	410
Breckinridge, Clifton Rodes	4	457
Brentano, Lorenz	4	467
Briggs, Frank Obadiah	4	537
Briggs, George Nixon	4	537
Bright, Jesse D	4	538
Bristow, Benjamin Helm	4	552
Bristow, Joseph Little	4	552
Brockenborough, William H	4	571
Brooks, John	4	595
Brough, John	4	599
Brown, Aaron Venable	4	602
Brown, Albert Gallatin	4	602
Brown, Benjamin Gratz	4	603
Brown, Joseph Emerson	4	609
Brown, John Young	4	609
Bruce, Blanche Kelso	4	625
Bryan, Charles Page	4	646
Bryan, William Jennings	4	646
Bryant, John Howard	4	647
Bryce, Lloyd	4	649
Buchanan, William Insco	4	661
Buchtel, Henry Augustus	4	664
Buckingham, William Alfred	4	666
Bulkeley, Morgan Gardner	5	6
Bullock, Charles Jesse	5	17
Bullock, Rufus Brown	5	17
Burges, Tristam	5	37
Burke, John	5	47
Burke, Thomas	5	48
Burleigh, Edwin Chick	5	48
Burnet, William	5	56
Burnett, Peter Hardeman	5	57
Burton, Theodore Elijah	5	69
Burr, Aaron	5	63
Butler, Andrew Pickens	5	78
Campbell, James Edwin	5	278
Cannon, Joseph Gurney	5	511
Cannon, Frank Jenne	5	510
Caperton, Allen Taylor	5	552
Carey, James F	5	606
Carlile, John S	5	617
Carlin, Thomas	5	617
Carmack, Edward Ward	5	627
Carpenter, Fred Warner	5	652
Carrington, Edward Codrington	5	671
Carrington, Paul	5	672
Carroll, Howard	5	673
Carter, George Robert	5	678
Carter, Thomas Henry	5	679
Cary, Archibald	5	691
Caswell, R	6	23
Chamberlain, Daniel Henry	6	259
Chandler, William Eaton	6	286
Chandler, Zachariah	6	286
Chase, Salmon Portland	6	343
	27	423
Chisholm, William Wallace	6	569
Choate, Rufus	6	580

General Biographies — cont'd	Vol.	Page
Christiancy, Isaac Peckham	6	615
Clapp, Moses Edwin	7	33
Clark, Champ	7	40
Clark, Clarence Don	7	40
Clark, Walter Eli	7	44
Clark, William Andrews	7	44
Clarke, James P	7	47
Clay, Cassius Marcellus	7	65
Clay, Clermont Claiborne	7	66
Clay, Green	7	66
Clay, Henry	7	66
Clayton, John Middleton	7	74
Clayton, Powell	7	74
Clemens, Jeremiah	7	84
Cleveland, (Stephen) Grover	7	92
Clingman, Thomas, Lanier	7	113
Clinton, De Witt	7	113
Clinton, George	7	114
Cobb, Howell	7	174
Cochran, John	7	184
Cockrell, Francis Marion	7	188
Colby, Everett	7	234
Coler, Bird Sim	7	244
Coles, Edward	7	249
Colfax, Schuyler	7	249
Colgate, Austen	7	250
Collier, William Miller	7	266
Colman, Norman J	7	274
Colquitt, Alfred Holt	7	332
Colton, George Radcliffe	7	333
Conger, Edwin Hurd	7	499
Conkling, Roscoe	7	523
Conrad, Charles M	7	535
Coolidge, Archibald Cary	7	632
Coolidge, Thomas Jefferson	7	633
Cooper, Henry Ernest	7	635
Cooper, Thomas	7	637
Cornell, Alonzo Barton	7	711
Cortelyou, George Bruce	8	25
Corwin, Thomas	8	30
Coudert, Frederic René	8	91
Covode, John	8	132
Cox, Jacob Dolson	8	140
Cox, Samuel Sullivan	8	141
Crane, Winthrop Murray	8	156
Crawford, George Washington	8	165
Crawford, William Harris	8	166
Crittenden, John Jordan	8	214
Croker, Richard	8	220
Culberson, Charles A	8	294
Cullom, Shelby Moore	8	296
Cumming, Alfred	8	300
Cummins, Albert Baird	8	300
Curry, Jabez Lamar Monroe	8	315
Curtin, Andrew Gregg	8	316
Curtis, Charles	8	316
Cushing, Caleb	8	333
Dallas, Alexander James	8	417
Dallas, George Mifflin	8	417
Dana, Francis	8	444
Daniel, John Warwick	8	452
Daniels, Josephus	8	457
Davidson, James Wheeler	8	504
Davis, Henry Gassaway	8	509
Davis, Jefferson	8	509
Davis, John Chandler Bancroft	8	512
Dayton, John	8	522
Debs, Eugene Victor	8	544
Delano, Columbus	8	607
Denby, Charles	8	676
Dennison, William	8	686
Depew, Chauncey Mitchell	8	702

General Biographies — cont'd	Vol.	Page
Derbigny, Pierre Auguste Charles Bouriggay	8	709
Dick, Charles	9	79
Dickinson, Charles Monroe	9	83
Dickinson, Daniel Stevens	9	83
Dickinson, John	9	84
	11	39
Dickson, Leonard Eugene	9	85
Dillingham, William Paul	9	121
Dingley, Nelson	9	125
Dinwiddie, Robert	9	131
Dix, John Alden	9	209
Dixon, Archibald	9	210
Dixon, James	9	211
Dixon, Joseph Moore	9	211
Dobbin, James Cochrane	9	214
Doddridge, Philip, 1st	9	219
Dolliver, Jonathan Prentiss	9	237
Dolph, Joseph Norton	9	239
Donelson, Andrew Jackson	9	257
Donnelly, Ignatius	9	259
Dorr, Thomas Wilson	9	268
Dorsey, Stephen Wallace	9	269
Douglas, Frederick	9	281
Douglas, William Lewis	9	281
Drake, Charles Daniel	9	301
Draper, Eben Sumner	9	312
Drayton, William	9	320
Drayton, William Henry	9	320
Duane, William	9	368
Dudley, Thomas	9	383
Dunne, Edward Fitzsimmons	9	406
Eberhart, Adolph Olson	9	519
Edge, Walter Evans	9	482
Egan, Patrick	9	720
Elkins, Stephen Benton	10	250
Endicott, John	10	319
Eustis, William	10	586
Evans, Henry Clay	10	592
Everett, Alexander Hill	10	597
Fall, Albert Bacon	10	731
Farwell, Charles Benjamin	11	50
Fassett, Jacob Sloat	11	51
Ferguson, James Edward	11	123
Ferris, Woodbridge Nathan	11	141
Filley, Chauncey Ives	11	210
Fish, Hamilton, Jr	11	266
Fisher, Walter Lowrie	11	282
Fisk, Clinton Bowen	11	294
Fitzgerald, John Francis	11	301
Folk, Joseph Wingate	11	416
Foraker, Joseph Benson	11	459
Forbes, William Cameron	11	461
Forsyth, John	11	496
Foss, Eugene Noble	11	526
Francis, David Rowland	11	757
Frelinghuysen, Frederick Theodore	12	57
Gadsden, James	12	217
Gallatin, Albert	27	375
Goodnow, Frank J	13	58
	19	576
Granger, Gideon	13	132
Granger, Francis	13	132
Green, Duff	13	422
	16	463
Grimes, James Wilson	13	474

General Biographies — cont'd	Vol.	Page
Griscom, Lloyd Carpenter	13	481
Griswold, Roger	13	482
Groesbeck, William Slocumb	13	484
Groulund, Lawrence	13	485
Gronna, Asle J	13	485
Grover, Lafayette	13	497
Guild, Curtis, Jr	13	534
Guthrie, George Wilkins	13	579
Hale, Eugene	13	632
Hale, John Parker	13	633
Hale, Salma	13	634
Hammond, James Henry	13	664
Hanna, Marcus A	13	678
Hanson, Alexander Contee	13	685
Hardwick, Thomas William	13	705
Harrison, Carter Henry	13	729
Harrison, William Henry	13	730
Hart, Thomas Norton	13	733
Hawley, Joseph Roswell	14	8
Hayes, Rutherford Birchard	14	18
Hayne, Robert Young	14	21
Hazzard, David	14	25
Head, Natt	14	26
Hearst, William Randolph	14	36
Henderson, Charles B	14	93
Henderson, David B	14	94
Henderson, James P	14	94
Hendricks, Thomas A	14	95
Herrick, Myron T	14	146
Hewitt, Abram Stevens	14	161
Hicks, Thomas Holliday	14	169
Higgins, Anthony	14	176
Hill, David Bennett	14	187
Hill, David Jayne	14	187
Hillhouse, James	14	190
Hilliard, Henry Washington	14	190
Hiscock, Frank	14	205
Hitchcock, Ethan Allen	14	298
Hoadley, George	14	299
Hoar, George Frisbie	14	300
Hobart, Garret Augustus	14	301
Hobson, Richmond P	14	305
Holcomb, Silas Alexander	14	315
Holcombe, Chester	14	315
Hollis, George F. W	14	319
Holman, Frederick Van Voorhies	14	321
Holt, Joseph	14	325
Hopkinson, Francis	11	310
House, Edward Mandell	14	444
Houston, David Franklin	14	448
Houston, Sam	14	449
Howe, Timothy Otis	14	458
Hoyt, John Wesley	14	461
Hoyt, Henry Martyn	14	461
Hughes, Charles Evans	14	477
Humphreys, David	14	496
Hunt, William Henry	14	513
Hyams, Henry Michael	14	534
Ingalls, John James	15	127
Jackson, Andrew	15	574
James, Ollie M	15	606
James, Thomas Lemuel	15	606
Jefferson, Thomas	13	209
	16	1
Johnson, Andrew	16	167
	24	477
Johnson, John Albert	16	177
Jones, John Percival	16	200
Julian, George Washington	16	242
Kaufman, David S	16	319

General Biographies — cont'd

	Vol.	Page
Kearns, Thomas	16	327
Kellogg, William Pitt	16	343
Kelly, John	16	344
Kemper, James Lawson	16	349
Kendall, Amos	16	463
Ladd, Herbert Warren	16	642
Laughlin, James Laurence	17	102
Lawrence, Abbott	17	145
Lawrence, William	17	147
Lea, Luke	17	169
Lee, Arthur	17	217
Lee, Blair	17	217
Lee, Charles	17	218
Lee, William	17	226
Legare, Hugh Swinton	17	240
Leib, Michael	17	261
Letcher, John	17	319
Levin, Lewis Charles	17	329
Lewis, James Hamilton	17	334
Lexow, Clarence	17	341
Lloyd, David	21	528
Logan, John Alexander	17	595
Long, John Davis	17	636
Low, Seth	17	697
Lowden, Frank Orren	17	698
Lubbock, Francis Richard	17	711
Lunn, George Richard	17	747
Lyon, Matthew	17	780
McAdoo, William Gibbs	18	4
McAneny, George	18	7
McCall, Samuel Walker	18	20
McCarren, Patrick Henry	18	20
McClellan, George Brinton	18	24
McClure, Alexander Kelly	18	26
McCook, Anson George	18	27
McCormick, Joseph Medill	18	28
McCormick, Robert Sanderson	18	29
McCoy, Isaac	18	29
McCullough, John Griffith	18	33
McDaniel, Henry Dickerson	18	35
McDowell, James	18	42
McDuffie, George	18	42
McHenry, James	18	51
McKinley, William	18	72
	27	322
McLane, Louis	18	75
McLane, Robert Milligan	18	75
McLean, George Payne	18	76
McMichael, Morton	18	82
McPherson, Edward	18	89
McReynolds, James Clark	18	91
Mack, Norman Edward	18	63
Maclay, William	18	76
MacLean, John	18	77
Macon, Nathaniel	18	86
MacVeagh, Franklin	18	91
MacVeagh, Wayne	18	92
Madison, James	18	98
Magoffin, Beriah	18	131
Magoon, Charles E	18	131
Magrath, Andrew Gordon	18	132
Mahone, William	18	137
Mailly, William	18	139
Maltbie, Milo Roy	18	171
Manderson, Charles Frederick	18	206
Manley, Joseph Homan	18	226
Mann, James Robert	18	228
Mann, Tom	18	228
Manning, Daniel	18	229
Marble, Manton	18	264

General Biographies — cont'd

	Vol.	Page
Marcy, William Learned	18	276
Marsh, George Perkins	18	323
Marshall, John	18	326
Marshall, Humphrey	18	326
Marshall, Thomas Riley	18	328
Martin, Thomas F	18	338
Mason, Jeremiah	18	381
Mason, John Young	18	382
Mason, Stevens Thomson	18	382
Mason, William Ernest	18	383
Maynard, Horace	18	467
Mayo-Smith, Richmond	18	469
Medary, Samuel	18	532
Meiklejohn, George D	18	597
Memminger, Christopher Gustavus	18	613
Meyer, George von Lengerke	19	2
Middleton, Henry	19	43
Mifflin, Thomas	19	46
Miller, Warner	19	121
Mitchel, John Purroy	19	264
Monroe, James	19	371
Montagu, Andrew Jackson	19	380
Moore, John Bassett	19	432
Morehead, John Henry	19	446
Morgan, Edwin Dennison	19	450
Morgan, Edwin Vernon	19	450
Morgan, John Tyler	19	453
Morgan, William	2	33
	19	454
Morganthau, Henry	19	457
Morrill, Anson Peaslee	19	473
Morrill, Lot Myrick	19	473
Morrill, Justin Smith	19	473
Morris, Lewis	19	476
Morris, Gouverneur	19	475
Morris, Edward Joy	19	474
Morris, Thomas	19	477
Morrison, John Tracy	19	480
Morton, Julius Sterling	19	490
Morton, Oliver Perry	19	491
Morton, Levi Parsons	19	490
Moses, George Higgins	19	501
Mouton, Alexander	19	535
Murat, Napoleon Achille	19	602
Murphy, Charles Francis	19	608
Murphy, Franklin	19	608
Murphy, Henry Cruse	19	609
Nagel, Charles	19	680
Nicholas, George	20	316
Osborne, John E	21	17
Otero, Miguel Antonio	21	40
Otis, Harrison Gray	21	43
Otis, James	21	43
Paddock, Algernon Sidney	21	92
Palmer, John McAuley	21	213
Pardee, George Cooper	21	295
Parker, Alton Brooks	21	325
Parker, Joel	21	328
Parsons, Frank	21	349
Parsons, Herbert	21	349
Pasco, Samuel	21	365
Patterson, Thomas MacDonald	21	409
Pattison, Robert Emory	21	410
Payne, Henry Clay	21	433
Phillips, Henry Myer	21	762
Phillips, Samuel	21	763
Penrose, Boies	21	543
Perit, Pelatiah	21	597
Pettigrew, Richard Franklin	21	697
Pickens, Francis Wilkinson	22	66
Pickering, Timothy	22	66
Pierce, Franklin	22	73

General Biographies — cont'd

	Vol.	Page
Pierpont, Francis Harrison	22	76
Pierrepont, Edwards	22	76
Pillsbury, John Sargent	22	87
Pinchback, Pinckney Benton Stewart	22	93
Pinchot, Gifford	22	93
Pinckney, Charles	22	93
Pinckney, Thomas	22	94
Pingree, Hazen Senter	22	101
Pinkney, William	22	102
Pitkin, Timothy	22	121
Pittman, Key	22	123
Platt, Orville Hitchcock	22	238
Platt, Thomas Collier	22	238
Poindexter, George	22	281
Poinsett, Joel Roberts	22	281
Polk, James Knox	22	317
Pomerene, Atlee	22	341
Porter, Peter Buel	22	391
Porter, James Davis	22	391
Pujo, Arsène Paulin	22	794
Quay, Matthew Stanley	23	70
Quincy, Josiah	23	92
Quitman, John Anthony	23	99
Raines, John	23	185
Randall, Samuel Jackson	23	208
Rankin, Jeannette	23	213
Ransdell, Joseph Eugene	23	213
Ransom, Matthew Whitaker	23	213
Rawlins, Joseph Lafayette	23	236
Raymond, Henry Jarvis	23	239
Rayner, Isidor	23	241
Read, George	23	245
Read, John Meredith	23	245
Reagan, John Henninger	23	248
Reed, James A	23	293
Reeder, Andrew Horatio	23	296
Rhett, Robert Barnwell	23	459
Rivès, William Cabell	23	555
Roberts, Ellis Henry	23	568
Robertson, William H	23	573
Robinson, Edward Van Dyke	23	580
Robinson, Joseph Taylor	23	583
Robinson, William Erigena	23	583
Rochester, Nathaniel	23	589
Rockhill, William Woodville	23	600
Rollins, Frank West	23	638
Roman, André Bienvenu	23	640
Roosevelt, Theodore	23	680
	27	322
Rowe, Leo Stanton	23	729
Ruef, Abraham	23	754
Runyon, Theodore	23	775
Rusk, Richard	23	779
Rusk, Jeremiah McLean	23	781
Rusk, Thomas Jefferson	23	781
Rutledge, John	24	68
Sadler, Reinhold	24	100
Sargent, Winthrop	24	304
Saunders, Alvin	24	319
Schmitz, Eugene F	24	382
Schwab, John Christopher	24	409
Scott, Robert Kingston	24	441
Seidel, Emil	24	532
Sherman, Lawrence Yates	24	704
Shannon, Wilson	24	659
Smith, Alfred E	25	112
Smith, Charles Emory	25	114
Smith, Ellison Du Rant	25	115
Smith, Gerrit	25	118
Smith, Green Clay	25	119

General Biographies — cont'd

	Vol.	Page
Smith, John Walter	25	123
Smith, Marcus Aurelius	25	125
Smith, Munroe	25	125
Smith, Samuel	25	126
Smith, William Alden	25	129
Smoot, Reed	25	139
Snowden, James Ross	25	152
Soulé, Pierre	25	271
Southard, Samuel Lewis	25	309
Spaulding, Rolland Harty	25	364
Spencer, John Canfield	25	393
Spinner, Francis Elias	25	414
Stanchfield, John Barry	25	478
Stanton, Edwin McMasters	25	485
Sterling, Thomas	25	629
Stevens, Thaddeus	25	637
Stimson, Henry Lewis	25	651
St. John, John P	22	640
Stone, William Joel	25	679
Storer, Bellamy	25	696
Straight, Willard Dickerman	25	708
Straus, Oscar Solomon	25	719
Stroebel, Edward Henry	25	738
Strong, William L	25	740
Sulzer, William	27	477
Sutherland, George	26	103
Taggart, Thomas	26	214
Tallmadge, Nathaniel Pitcher	26	229
Tanner, John Riley	26	245
Tawney, James A	26	287
Taylor, Zachary	26	302
Terrell, Joseph Meriwether	26	447
Thayer, John Milton	26	490
Thomas, Charles Spaulding	26	571
Thompson, William Hale	26	580
Thurman, Allen Granbery	26	602
Tiffin, Edward	26	621
Tillman, Benjamin Ryan	26	627
Toole, Joseph Kemp	26	690
Troup, George McIntosh	27	96
Trumbull, Lyman	27	105
Trumbull, Jonathan	27	105
Trumbull, Joseph	27	105
Tweed, William Marcy	27	213
Tyler, John	27	232
Tyner, James Noble	27	235
Underwood, Oscar Wilder	27	275
Upshur, Abel Parker	27	586
Vail, Charles Henry	27	641
Vallandigham, Clement L.	27	421
Vallandigham, Clement Laird	27	649
Van Buren, Martin	27	663
Van Zandt, John	6	344
Vilas, William Freeman	28	86
Walker, William	13	351
Watson, Thomas Edward	29	110
Watts, Thomas Hill	29	114
Weaver, James Baird	29	135
Weed, Thurlow	29	155
Welles, Gideon	29	179
Wells, Heber Manning	29	186
West, Oswald	29	198
White, Bouck	29	264
White, Frank	29	265
Whitney, William Collins	29	284
Wickersham, George Woodward	29	293
Wilcox, Delos Franklin	29	302

General Biographies — cont'd

	Vol.	Page
Williams, George Frederick	29	339
Wilson, James F	29	360
Wilson, Woodrow	29	363
Winston, John Anthony	29	401
Wise, Henry Alexander	29	426
Wolcott, Oliver	29	436
Wood, Fernando	29	472
Wood, Leonard	29	473
Woodbridge, William	29	492
Works, John Downey	29	523
Wren, William Simon	27	592
Yancey, William Lowndes	29	611
Yates, Richard	29	616
Young, George Ulysses	29	650
Young, James Thomas	29	651
Zihlman, Frederick Nicholas	29	708

GREAT BRITAIN, IRELAND AND BRITISH DOMINIONS (EXCEPT CANADA)

	Vol.	Page
Aberdeen, John Campbell Hamilton Gordon	1	38
Addington, Henry	1	131
Ampthill, Odo William Leopold Russell	1	590
Ashmead-Bartlett, Sir Ellis	2	387
Asquith, Herbert Henry	2	408
	13	203
Baden-Powell, Sir George Smyth	3	33
Bagot, Charles	3	43
Balfour, Arthur James	3	79
	13	203
	16	104
Baring, Thomas George	3	252
Bathurst, Allen	3	338
Bathurst, Henry	3	338
Bathurst, Henry (3d Earl)	3	338
Beach, Thomas Miller	17	162
Begbie, Sir Matthew Baillie	3	443
Bell, C. F. Moberly	3	473
	13	337
Bennet, Henry	3	519
Bentinck, Lord William Charles Cavendish	3	526
Bentinck, Lord William George Frederick Cavendish	3	526
Birrell, Augustine	4	9
	13	203
Bowen, Sir George	4	361
Bowring, Sir John	4	367
Boyle, Richard	4	375
Boyle, Roger	4	376
Brassey, Thomas	4	420
Bright, John	4	539
Buchanan, Sir George William	4	659
Burdett, Sir Francis	5	34
Burns, John	5	59
	13	286
Butt, Isaac	5	84
Buxton, Sidney Charles	5	93
Cairnes, John Elliot	5	148
Cairns, Hugh McCalmont	5	148
Camden, Charles Pratt	5	255
Cameron, Sir Charles	5	263
Campbell, Sir George	5	278
Canning, Stratford	5	505
Carden, Sir Lionel Edward Gresley	5	599
Carpenter, Edward	5	652
Castlereagh, R. S., Viscount	6	9

General Biographies — cont'd

	Vol.	Page
Cavendish, F. C	6	150
Cavendish, William	6	151
Cecil, Evelyn	6	159
Cecil, Lord Hugh (Richard Heathcote)	6	159
Cecil, Robert	6	159
Cecil, Lord Robert (Edgar Algernon)	6	159
Chamberlain, Joseph	6	260
Chatham, William Pitt, Earl of	6	352
Chelmsford, Frederic J. N. T	6	377
Chesterfield, Philip D. S	6	428
Churchill, Randolph Henry Spencer	6	662
Churchill, Winston	6	663
	13	203
Cobbett, William	7	175
Cobden, Richard	7	176
Cockburn, Sir John Alexander	7	186
Cornwallis, Charles	7	716
Courtney, Leonard Henry	8	126
Cranbrook, Gathorne Gathorne-Hardy	8	154
Cremer, William Randal	8	178
Crewe, Robert Offley Ashburton Crewe-Milnes, Marquis of	8	189
Cromer, Evelyn Baring, 1st Earl	8	221
Cromwell, Henry	8	223
Curzon of Kedleston, Earl	8	331
	13	334
Curzon, George Nathaniel	8	331
Dalhousie, James Andrew Ramsay, 10th Earl and 1st Marquis of	8	415
Dalrymple, John, 1st Earl of Stair	8	422
Deakin, Alfred	8	537
Derby, Edward Geoffrey Smith Stanley, 14th Earl of	8	709
Derby, Edward George Villiers Stanley, 17th Earl of	8	709
Derby, Edward Henry Smith Stanley, 15th Earl of	8	709
Despenser, Hugh le	9	14
Digby, George	9	108
Dilke, Sir Charles Wentworth	9	120
Dillon, John	9	122
Disraeli, Benjamin	3	373
	13	201
Dudley, Sir Edmund	9	382
Duff, Sir Mountstuart Elphinstone Grant	9	387
Dufferin, and Ava, Frederick Temple Hamilton-Temple Blackwood	9	387
Duncombe, Thomas Slingsby	9	402
Dundas, Henry	9	402
Durning-Lawrence, Sir Edwin	9	426
Eastwick, Edward Backhouse	9	516
Ellenborough, Edward Law	10	252
Elphinstone, Mountstuart	10	265
Evans, L. D	13	351
Falkland, Lucius Cary	10	730

General Biographies — cont'd

	Vol.	Page
Fanshawe, Sir Richard	11	12
Frere, Sir Henry Bartle Edward	12	88
Fullerton, W. Morton	13	466
George I	13	211
George II	13	211
George, David Lloyd	13	208
Gladstone, William Ewart	12	677
Grattan, Henry	13	161
Grenville, William Wyndham	13	461
Grey, Sir George	13	464
Haldane, Viscount	13	203
Halifax, Charles Montague	13	637
Hamilton, George Francis	13	658
Hardie, James Keir	13	286
	13	698
Healy, Timothy Michael	14	35
Heaton, Sir John Henniker	14	54
Herbert, Sir Michael Henry	14	120
Herschel, Sir William James	14	151
Herschel, Farrer	14	152
Hicks-Beach, Sir Michael Edward	14	169
Hill, Sir Rowland	14	189
Hobbes, Thomas	14	302
	22	315
Holland, Henry Richard Vassall Fox	14	317
Holyoake, George Jacob	14	331
Hume, Joseph	14	498
Hunt, Henry	14	510
Hyndman, H. M.	13	286
Iddesleigh, Lord	13	226
Jackson, F. J.	27	371
Kennedy, Thomas Francis	16	357
Laing, Samuel	16	654
Lauderdale, John M.	17	100
Lawrence, John Laird Mair	17	146
Lawson Sir Wilfrid	17	155
Le Caron, Henri	17	162
Locke, John	17	561
	22	315
Lowe, Robert	17	699
Lucas, Lord	17	714
Ludlow, Edmund	17	721
McCarthy, Justin	18	21
McDonald, James Ramsay	18	37
McKenna, Reginald	18	66
McLeod, Alexander	13	330
McMahon, Sir Arthur Henry	18	81
Macaulay, Thomas Babington	18	10
MacDonnell, Anthony Patrick	18	38
MacNamara, Thomas James	18	85
Maitland, William	18	153
Malcolm, Sir John	18	163
Mansfield, William Murray	18	234
Mavor, James	18	454
Merivale, Herman	13	226
	18	675
Milner, Sir Alfred	19	181
Molesworth, Sir William	19	323
Monson, Sir Edmund John	19	377
Montagu, Edwin Samuel	19	380

General Biographies — cont'd

	Vol.	Page
Morgan, Sir George Osborne	19	450
Morley, Lord	13	203
	19	461
Morris, William	13	286
	19	477
Neilson, Samuel	20	62
Northcote, Sir Stafford	13	266
Northumberland, Henry George Percy, 7th Duke of	20	480
O'Brien, William	20	545
O'Connor, Arthur	20	572
O'Donnell, Frank Hugh	20	585
O'Donovan, Jeremiah	23	766
O'Mahony, John Francis	20	679
Palmerston, Henry John Temple, Viscount	13	214
	21	214
Parkes, Harry Smith	21	331
Parkes, Henry	21	331
Parnell, Charles Stuart	21	340
Pennell, Henry Cholmondeley	21	517
Perceval, Spencer, Rt. Hon.	21	570
Pitt, William	22	122
Playfair, Lyon	22	243
Plunket, William Conyngham	22	252
Plunkett, Horace Curzon	22	259
Pollock, Frederick	22	314
Prior, Matthew	22	601
Pym, John	23	88
Quick, Sir John	23	88
Raffles, Sir Thomas Stamford	23	132
Redmond, John Edward	23	289
Reed, Charles	23	292
Rhodes, Cecil	13	337
	23	471
Ricardo, David	23	484
Robertson, John Mackinnon	23	572
Rodd, Sir Rennell	23	618
Rose, Hugh Henry	23	692
Rossa, O'Donovan	23	706
Rumbold, Horace	23	772
Runciman, Walter	23	774
Russell, John	13	226
	23	786
Salisbury, Roberts Arthur Talbot Gascoyne	13	202
	24	185
Salomons, David	16	107
Sandys, Sir Edwin	24	259
Say and Sele, William Fiennes	24	343
Seeley, John	22	313
	24	530
Selwyn, George Augustus	24	545
Snowden, Philip	25	152
Spring-Rice, Sir Cecil Arthur	25	453
Stephen, Sir James	13	226
Tone, Theobald Wolfe	26	684
Tooke, John Horne	26	690
Trevelyan, Sir Charles Edward	13	266
	27	49
Trevelyan, Sir George Otto	27	49
Urquhart, David	27	598
Wedderburn, Alexander	29	152
Wemyss, Francis Wemyss Charteris	29	190
Wilkinson, Sir John Gardner	29	322
Wolsey, Thomas	29	444

General Biographies — cont'd

	Vol.	Page
CANADA		
Aikins, Sir James	1	273
Allen, Sir John Campbell	1	415
Ames, Sir Herbert Brown	1	569
Arthur, Sir George	2	354
Asselin, Joseph François Olivar	2	414
Belcourt, Napoleon Antoine	3	453
Bennett, Richard Bedford	3	520
Bigot, François	3	699
Bourassa, Henri	4	345
Brewster, Harlan Carey	4	486
Buchanan, Isaac	4	659
Burrell, Martin	5	65
Cameron, Sir Douglas Colin	5	263
Caron, René Edouard	5	649
Chapleau, Sir Joseph Adolphe	6	296
Chauveau, Pierre Joseph Olivier	6	368
Clark, Sir William Mortimer	7	45
Clarke, George Johnson	7	47
Cochrane, Frank	7	134
Colby, Charles Carroll	7	234
Cushing, William Henry	8	334
Desjardins, Alphonse	9	10
Dewdney, Edgar	9	46
Douglas, Sir James	9	279
Dunsmuir, James	9	408
Emmerson, Henry Robert	10	297
Ferguson, Donald	11	123
Haultain, Sir Frederick William Gordon	13	759
Hazen, John Douglas	14	24
Head, Sir Edmund Walker	14	25
Hearst, Sir William Howard	14	36
Hincks, Sir Francis	14	193
Howe, Joseph	14	456
Howland, Sir William Pearce	14	460
Hughes, Sir Sam	14	480
Hunter, Peter	14	514
Laurier, Sir Wilfrid	17	111
McBride, Sir Richard	18	16
McCarthy, D'Alton	18	21
McDonald, Andrew Archibald	18	35
McDonald, James	18	36
Macdonald, Sir Hugh John	18	36
Macdonald, John Sanfield	18	37
MacDonald, Sir John Alexander	18	37
MacDougall, William	18	40
McGee, Thomas D'Arcy	18	47
McKenna, James Andrew Joseph	18	66
McMaster, William	18	82
McMillan, Sir Daniel Hunter	18	83
McNab, Sir Allan Napier	18	85
Mackenzie, Alexander	18	67
Mackenzie, William Lyon	18	69
MacPherson, Sir David Lewis	18	89
Marcil, Charles	18	272
Martin, Joseph	18	337
Masson, Louis François Rodrigue	18	417

General Biographies — cont'd	Vol.	Page
Matheson, Arthur James	18	436
Mercier, Honoré	18	667
Miller, William	19	122
Mitchell, Peter	19	268
Mowat, Sir Oliver	19	540
Mulock, Sir William	19	560
Murray, George Henry	19	610
Ouimet, Joseph Alderic	21	52
Papineau, Louis Joseph	21	269
Parent, Etienne	21	297
Parent, Simon Napoleon	21	297
Paterson, William	21	390
Patterson, James Colebrooke	21	408
Poirier, Pascal	22	282
Pope, John Henry	22	361
Robidoux, Joseph Emory	23	576
Robinson, Clifford William	23	579
Roblin, Sir Redmond Palen	23	586
Rolph, John	23	639
Rowell, Newton Wesley	25	729
Schultz, Sir John Christian	24	404
Smith, Sir Albert James	25	112
Strathcona and Mount Royal, Donald Alexander Smith, Earl of	25	718
Stuart, Sir James	25	746
Sullivan, Sir William Wilfrid	25	809
Taché, Sir Etienne Paschal	26	202
Talon, Jean Baptiste	26	281
FRANCE		
Barbe-Marbois, François Marquis de	3	234
Barras, Paul François Jean Nicolas Comte de	3	275
Barthélemy, François Marquis de	3	289
Bazard, Amand	3	369
Blowitz, Henri Georges Stéphane Adolphe Opper de	4	120
Boulay De La Meurthe, Henri George	4	327
Burgoing, Jean François	4	351
Bracq, Jean Charlemagne	4	382
Brisson, Eugène Henri	4	546
Brissot De Warville, Jean Pierre	4	546
Cabet, Étienne	5	117
Calmon, Marc Antoine	5	229
Cambon, Jules Martin	5	246
Cambon, Pierre Joseph	5	246
Cambon, Pierre Paul	5	246
Carnot, Marie François Sadi	5	644
Carrel, Nicolas Armand	5	664
Casimir-Périer, Jean Paul Pierre	5	740
Catineau - Laroche, Pierre - Marie - Sebastien	6	104
Cavaignac, Eléonore-Louis Godefroy	6	134
Cavaignac, Jean B	6	134
Cavaignac, J. M. E. G	6	134
Caulaincourt, A. A. L. de	6	130
Cazales, Jacques A. M. de	6	156
Cozot, Théodore J. J	6	157
Challer, Joseph	6	253
Challemet-Lacour, Paul Armand	6	253
Champagny, Jean Baptiste Nompère de	6	270
Choiseul-Amboise, Etienne François	6	583
Choiseul-Gouffier, Marie Gabriel Auguste Florent de	6	583
Choiseul-Praslin, Eugène Antoine Horace	6	583
Clemenceau, Georges Benjamin Eugène	7	83
Cléron, Joseph Othenin Bernard de	7	91
Cochery, George (Charles Paul)	7	182
Cochery, Louis Adolphe	7	182
Combes, Justin Louis Emile	7	350
Cossé, Charles de Comte de Brissac	8	39
Crémieux, Isaac Moïse	8	178
De Gérando, Joseph Marie, Baron	8	597
Delcassé, Théophile	8	617
Delescluze, Louis Charles	8	619
Deschanel, Paul (Eugène Louis)	8	719
Doumer, Paul	9	282
Doumergue, Gaston	9	283
Duclerc, Charles Théodore Eugène	9	381
Dupuy, Charles Alexandre	9	415
Dupuy, Jean	9	415
Dupont, Jacques Charles	9	413
Fallières, Clément Armand	10	734
Faucher, Léonard Joseph (Léon)	11	62
Faure, François Félix	11	64
Favre, Gabriel Claude Jules	11	70
Forbonnais, François V. D. de	11	461
Foville, Alfred de	11	561
Grousset, Paschal	13	496
Guesde, Jules Basile	13	526
Guyot, Yves	13	584
Hanotaux, (Albert Auguste) Gabriel	13	681
Havin, Lénor Joseph	13	767
Hébert, Jacques René	14	57
Jaurès, Jean Leon	11	705
Klotz, Louis Lucien	16	475
Lauriston, Jacques A. B. L.	17	112
Le Bon, Joseph	17	161
Lebret, Georges	17	208
Lebrun, Charles François	17	209
Ledru-Rollin, Alexandre Auguste	17	215
Lepeletier De Saint-Fargeau, Louis Michel	17	307
L'Hopital, Michel de	17	343
Mably, Gabriel Bonnot de	18	3
Maisonneuve, Paul de Chomedey	18	152
Malesherbes, Chrétien Guillaume de Lamoignon de	18	165
Malon, Benoît	18	169
Marcel, Etienne	18	267
Maurepas, Jean Frédéric Phélypeaux	18	449
Millerand, Alexandre	19	123
Morny, Charles Auguste Louis Joseph	19	466
Mun, Albert, Count de	19	562
Painleve, Paul	21	106
Périer, Casimir Pierre	21	586
Persigny, Jean Gilbert Victor Fialin	21	630
Poincaré, Raymond	11	742
	22	280
Polignac, Jules Auguste Armand Marie	22	303
Ranc, Arthur	23	206
Rochefort, Henri	23	588
Saint Just, Antoine Louis de	24	139
Simon, Jules (Jules François Simon Suisse)	25	24
Steinheil, Marguerite	25	611
Tallien, Jean Lambert	26	229
Tardieu, André Pierre Gabriel Amédée	26	267
Thomas, Albert	11	629
Tocqueville, Alexis Charles Henri Clérel de	26	665
Victor Henri, Marquis de Rochefort-Lucay	23	588
Viviani, René	11	741
	28	156
GERMANY		
Achenwall, Gottfried	1	87
Arnim, Harry Karl Kurt Eduard Von	2	311
Barth, Theodor	3	288
Bebel, Ferdinand August	3	400
Bennigsen, Rudolph von	3	521
Bernstein, Eduard	3	576
	25	179
Bernstorff, John Hartwig Ernst	3	576
Bieberstein, Adolf Marschall von	3	688
Bornemann, Ferdinand Wilhelm Ludwig	4	276
Braun, Karl	4	421
Delbrück, Martin Friedrich Rudolf von	8	617
Dernburg, Bernhard	8	714
Ebert, Frederick	28	467
Engels, Friedrich	10	337
Eulenberg, Philip	10	573
Falk, Paul Ludwig Adalbert	10	729
Gentz, Friedrich von	12	403
Gruner, Justus von	13	504
Hardin, Maximilian (Felix Ernst)	13	696
Hertling, Georg F	14	152
Hohenlohe - Schillingsfürst, Chlodwig Karl Victor	14	312
Hollenben, Theodore von	14	318
Humboldt, Karl Wilhelm	14	490
Humboldt, Friedrich Heinrich Alexander	14	489
Jagow, Gottlieb von	15	595
Kolb, Georg Friedrich	16	510
Lassalle, Ferdinand	16	758
Lichnowsky, Prince Karl Max	17	399
Liebknecht, Karl	17	406
Liebknecht, Wilhelm	17	406
List, Friedrich	17	503
Loewe, Wilhelm	17	592
Luxemburg, Rosa	17	764
Marx, Karl	18	345
Michaelis, Georg	19	13

General Biographies — cont'd

	Vol.	Page
Puttkamer, Robert Viktor von	23	35
Quidde, Ludwig	23	89
Rau, Karl Heinrich	23	230
Rodbertus, Johann Karl	23	618
Roscher, Wilhelm	23	691
Ruge, Arnold	23	756
Solf, Wilhelm	25	239
Stumm-Halberg, Karl Ferdinand	25	754
Treitschke, Heinrich von	27	37
Virchow, Rudolf	28	109

OTHER COUNTRIES

Aali Pasha, Mehemed Emin	1	3
Abascal, José Fernando	1	7
Abasolo, Mariano	1	7
Abbadides	1	9
Abbas I	1	9
Abbas, Kuli Khan	1	10
Abbas-Mirza	1	10
Abbas Pasha I	1	10
Abbas Pasha II, Hilmi	1	10
Abbassides	1	10
Abd El Aziz	1	27
Abd El Kader Ibn Mouhi Ad Din	1	28
Abd El Mumin Abu Mohammed	1	28
Abd-er-Rahman	1	29
Abd-er-Rahman I	1	28
Abd-er-Rahman III	1	28
Abd-ul-Akhard-Khan	1	31
Abd-ul-Azis-Han	1	31
Abd-ul-Hamid I	1	32
Abd-ul-Hamid II	1	32
Abd-ul-Mediid	1	33
Abd-ur-Rahman	1	33
Abd-ur-Rahman Khan	1	33
Al-Mamum	1	11
Al-Mansur	1	11
Beglerbeg	3	444
Begum	3	445
Benckendorff, Alexander	3	514
Bela Kun	28	469
Berchtold, Count	3	537
Bernadotte, Joseph François	21	18
Bertrand, Francisco	14	349
Bonilla, Manuel	14	349
Bravo-Murillo, Don Juan	4	422
Bravo, Nicholas	4	422
Brooke, Sir James	4	590
Brunnow, Philipp	4	635
Bucareli y Urzua, Antonio Maria	4	653
Bulnes, Manuel	5	18
Burgers, Thomas Francis	5	37
Bustamante, Anastasio	5	76
Cáceres, Andrés Avelino	5	128
Calice, Count Heinrich	5	195
Calvo, Carlos	5	241
Carvalho, Paez de Andrade Manoel de	5	689
Cassini, Arthur Pavlovitch	5	711
Castélar y Ripoll, E.	6	2
Castilla, R.	6	6
Cavalotti, F.	6	138
Cavour, C. B., Count di	6	152
Cellamare, Antonio G.	6	173
Cethegus, Gaius C.	6	233
Cethegus, Marcus C.	6	233
Cevallos, Pedro	6	234
Charles (Karl Ludwig Johann Joseph Laurenz)	6	311

General Biographies — cont'd

	Vol.	Page
Consalvi, Ercole	7	536
Corral, Ramon	8	18
Creutz, Gustaf Philipp, Graf von	8	188
Crispi, Francesco	8	210
Czernin, Count Ottokar von und zu Chudenitz und Morzin	8	383
Daneff, Stojan	8	450
D'Annunzio, Gabriele	8	463
	15	556
Dante, Alighieri	8	464
	15	392
Dats E Iradier, Eduardo	8	491
Dávila, Coello y Pacheco	8	507
Dávila, Pedrarias	8	507
Deák, Ferencz	8	537
Delyannis, Theodoros	8	630
Deucher, Adolf	9	33
Depretis, Agostino	8	704
Dessalines, Jean Jacques	9	15
Dessewffy, Count Aurel	9	15
De Witt, Jan	9	49
Diaz, Porfirio	9	75
Dumba, Constantine Theodor	9	397
Egusquiza, Juan Bautista	10	1
Enomoto, Buio	10	397
Errera, Alberto	10	484
Falieri, Marino	10	729
Falk, Max	10	729
Faustin I	11	68
Federzoni, Signor	15	393
Felder, Cajetan	11	96
Ferri, Enrico	11	149
	15	481
Fersen, Fredrik Axel von	11	143
Fonseca, Manoel Deodoro da	11	425
Gómez-Farias, Valentín	13	42
Gomez, Juan Vincente	13	41
Gomez, José Miguel	13	41
Gregr, Eduard	13	458
Gregr, Julius	13	458
Gual, Pedro	13	509
Guardia, Tomás	13	514
Guirior, Manuel Marqués de	13	540
Gutchkoff, Alexander Ivanovitch	13	578
Gutiérrez, Santos	13	581
Harun al-Rashid	1	11
	13	744
Hitotsubashi	14	298
Hoegh-Guldberg, Ove	14	308
Horváth, Michael	14	422
Hübner, Joseph Alexander	14	466
Huerta, Victoriano	14	474
Hunneus, George	14	509
Iglesias, José Maria	14	671
Iglesias, Pablo	14	671
Janson, Paul	15	616
Jonescu, M.	28	645
Joseph, Archduke	28	470
Karolyi, Count Michael	28	468
Kautsky, Karl Johann	16	322
Kerensky, Alexander Feodorovitch	16	376
Kolchak, Admiral	28	473
Kravchinski, Sergius Michaelovitch	25	622
Kunitake, Watanobe	15	708
Laveleye, Emile L. V. de	17	118
Leguia, Augusto B.	17	257
Lenine, Nikolai	17	285
Li Hung Chang	17	343
Machiavelli, Niccolo	18	52

General Biographies — cont'd

	Vol.	Page
Madero, Francisco Indalecio	18	97
Magalhaes, Domingos José Gonçalves	18	112
Mahmud, Sheoket Pasha	18	137
Mansfeld, Peter Ernst I.	18	234
Masaryk, Thomas G.	8	883
	18	374
Matsukata, Masayoshi	18	439
Medina, José Maria	18	587
Midhat Pasha	19	44
Milutin, Dmitri Alexievitch	19	140
Milyukov, Pavel Nikolaevitch	19	143
Minghetti, Marco	19	170
Molina, Olegario	19	325
Moncheur, Ludovic	19	342
Montt, Manuel	19	419
Moreno, Afredo Baquorizo	19	447
Morse, Hosea Ballou	19	483
Moso y Marquez, Bartolomé	18	379
Mutsu, Munimitsu	19	656
Naon, Rómulo S.	19	691
Nansen, Hans	19	689
Nesselrode, Karl Robert Count	20	86
Nieuwenhuis, Ferdinand Domela	20	336
Nishan El-Aaman	20	370
Nishan El-Iftikhar	20	370
Nishan I-Imtias	20	370
Nishan I-Shefkiat	20	370
Novikoff, Olga Kiréeff	20	478
Orlando, Vittorio Emanuele	20	813
Ostrogorski, Moisei Ikovlevitch	21	37
Ovando, Nicolás de	21	56
Pardo, Manuel	21	296
Pezet, Federico Alfonso	21	100
Pierola, Nicholas de	22	76
Plaza, Leonidas	22	243
Plekhanoff, George	22	145
Prado, Mariano Ignacio	22	501
Pretorius, Marthinas Wessels	22	562
Quesada, Gonzalo de	23	84
Quintus Lutatius Catulus	6	125
Rabasa, Emilio	23	103
Radowitz, Joseph Maria von	23	130
Restrépo, Carlos E.	23	422
Rivera, José Fructuoso	23	549
Roca, Julio Argentino	23	586
Romero, Matias	23	674
Santana, Pedro	24	283
Sarmiento, Domingo Faustino	24	305
Serrano y Dominguez, Francisco	24	601
Sigbele, Scipione	15	392
Silvela, Francisco	25	11
Sinha, Sir Satyendra Prassano	25	40
Sonnino, Baron Sidney Constantino	25	258
Soyeshima, Tanéomi	25	320
Stahlberg, Kaarlo Juho	25	471
Stambuloff, Stephen Nikolof	25	474
Stepniak, Sergius	25	622
Steyn, Marthinus Theunis	25	645
Suarez, Mujica Eduardo	25	760
Toussaint, François Dominique	26	722

General Biographies — cont'd	Vol.	Page
Turati, Filippo	27	169
Tze-Hsi	27	248
Ulyanov, Nikolai Ilyitch	17	285
Uribe, Antonio José	27	592
Varilla, Philippe Bunau	27	689
Valera y Alcala Galiano, Juan	27	646
Vandervelde, Emile	27	682
Vecchio, Georgio del	15	392
Venizelos, Eleutherios	6	35
	28	6
Weyler y Nicolau, Valeriano	29	230
Wilhelmina, Helene Pauline Marie	29	319
Wilhelmina I	29	319
Yoshihito	29	647
Yoshinobu	29	647
Yukio Ozaki	15	648
Zankoff, Dragan	29	687
Zapata, Emiliano	29	688
Zavala, Joaquin	29	689
Zemskiya Uchreideriva	29	697

HARDWARE, CUTLERY AND TOOLS

General — cont'd		
Abrasives	1	49
Aluminum ware	1	457
Anvil	2	49
Augers	26	695
Awls	26	694
Axe	2	681
	13	702
	25	684
	26	696
tooth	25	684
Barbed wire	25	606
Bevels	26	691
Bicycle	3	681
Bits and braces	26	695
Bolts	13	703
Brads	19	683
Builders' ware	13	702
Caliper rules	26	692
squares	26	692
Calipers	26	692
Carpet sweepers	5	660
Cast-iron pipe	22	107
Cast steel	5	715
Centre-punch (Bell's)	26	692
Chains	6	246
Chalk line	26	691
Chilled castings	15	99
Chisel	6	569
	25	684
	26	693
Chubb lock	6	651
Clamps	26	692
Clip hooks	7	116
Compasses	26	692
Corrugated iron	8	21
Cultivators	11	33
Cutlery	8	340
	13	704
manufacture, American process	8	342
pocket	13	704
Dies	9	96
	26	697
Drawing knives	26	693
Drill	15	101
	18	697
	26	697
Drop hammer	18	698
Drunken saw	15	101
Emery wheels	26	694
Enameled ware	13	704
Farm machinery	11	32
Files	11	206
	13	703
	26	693
Gauges	26	691
	26	696
Gimlets	26	695
Gouges	26	693
Grindstones	1	49
	26	694
Gullet	15	102
Gun, American hammerless ejecting	25	104
breech-loading	24	756
Hammer	13	664
	25	684
	26	695
bush	25	684
face	25	684
pean	25	684
Hardware industry in America	13	699
Harvesting machines	11	33
Hatchets	26	696
Indicators	26	696
Jack	15	572
	22	266
Knife	16	480
pocket	8	340
table	8	341
Lockmaking	17	560
Locks	17	559
Chubb	6	651
combination	17	560
	24	103
cylinder	17	560
dial	17	560
history of	17	559
lever tumbling	17	560
master keyed	17	560
pin-tumbler	17	560
safe	24	101
time of chronometer	17	560
warded	17	560
Yale	17	560
Mallet	18	167
	26	695
Mitre box	26	691
Nails	19	682
horseshoe	19	683
wire	15	374
	19	684
Nut, fly	15	102
jam	17	579
lock	15	103
Nuts	13	703
	20	508
Oilstones	1	49
	20	632
	26	694
Pick	25	684
Pincers	26	692
Pipe	22	107
couplings	22	108
wrought iron	22	107
Pistols, dueling	25	103
flintlock	25	103
Planes	26	693
Plow	22	251
Plumb-level	26	691
Pulley	22	795
Punches	18	697
Rasps	13	703
	26	693
Razors	8	341
	23	242
Reamers	26	697
Reapers and binders	23	260
Rifle	25	102
Henry	25	103
hunting	25	104
Rule	26	691
Sandpaper	24	231
Saw blades, band	3	137
Saw, circular wood	15	281
gauge	24	336
hack	24	338
pad	24	337
rip	24	336
terms	24	335
Sawmill	24	333
Sawmills, band	24	333
Saws	13	702
	18	698
	24	334
	26	692
back	24	337
combination	24	336
compass	24	336

General — cont'd	Vol.	Page
cross-cut	24	338
frame	24	337
hand	24	336
helicoidal	23	61
keyhole	24	336
pruning	24	337
Scissors	8	342
Screw, set	24	450
Screws	13	704
	24	450
machine	24	451
Scythe stones	1	49
Seeders and planters	11	32
Shears	18	697
	24	677
Shotgun	24	755
	25	104
Shovels	13	702
Skates	25	65
roller	23	636
Small arms	25	101

General — cont'd	Vol.	Page
Spirit-level	26	691
Spoke shaves	26	693
Sprocket chains	25	460
Spur	25	460
Squares	26	691
try	26	691
Stove screw	15	104
Steel cables	29	415
Steel tubing	25	603
Steel wire and nails	25	605
Stirrup	25	655
Stoves	25	702
Straight edge	26	691
Tacks	13	701
	19	683
Tilling machines	11	32
Tin plate	13	704
Tinware	13	704
Tools	26	690
edge	13	708
	26	693

General — cont'd	Vol.	Page
farming	13	701
masonry work	26	697
mechanics	13	704
metal-working	26	696
pneumatic	22	265
wood-working	26	691
Trammels	26	692
Vise	26	692
	28	133
Washing machine	28	772
Wedge	18	504
	29	153
Whetstones	1	49
Wire	29	410
cloth	29	411
fence	11	112
gauges	29	413
rope	29	414
Wood-working machinery	29	487
Yale lock	17	560

HEATING, LIGHTING AND VENTILATION

Heating

	Vol.	Page
Air-blast	1	276
Boiling point	4	173
Combustion	7	352
spontaneous	7	352
velocity of	7	353
Conductivity, coefficient of	14	45
Critical temperatures, pressures and densities	14	48
Fire	11	232
Fuels. See Fuels and Illuminants.		
Gases, expansion of	14	42
Heat	14	41
conduction of	14	44
conviction of	14	43
Heating	14	51
by electricity	14	53
direct	14	51
indirect system	14	52
hot air	14	51
hot-water system	14	52
	25	704
indirect	14	52
residence	14	51
steam	25	704
direct	14	52
	25	705
indirect	14	52
	25	705
Latent heat	14	46
of melting	14	46
of vaporization	14	46
Liquids, boiling points of	14	48
expansion of	14	42
Melting points	14	47
Radiation	14	48
	23	117
Solids, expansion of	14	42

Heating — cont'd	Vol.	Page
Specific heat	14	45
Specific heat of gases	14	45
Specific heat of liquids	14	45
Specific heat of solids	14	45
Steam	25	540
Thermodynamics	14	48
Thermometry	14	43
Thermostat	26	546
Vapors, saturated and unsaturated	14	47
Water vapor, pressure of	14	47

Heating Apparatus

	Vol.	Page
Base-burner	25	702
Bunsen burner	5	26
Damper	8	432
Electric heater	10	110
Electric furnace	10	106
Fire-bar	11	283
Firebrick	11	234
Fireless cooker	11	249
Fire-making	11	242
Flame	11	329
Flue	11	401
Furnace	12	180
	25	704
commercial	10	108
electric	10	106
arc	10	107
electrolytic	10	107
incandescent	10	108
reverberatory	23	445
Gas burner, oval	25	702
Heater, electric	10	110
Heating apparatus	25	702
Radiators, direct steam	14	52
Stoves	25	702
gas	25	703
kitchen	25	703
oil	25	703

Lighting

	Vol.	Page
Acetylene	17	472
Bude light	4	677
Calcium carbide	5	161
Calcium light	5	161
Candle	5	495
	18	751
hollow	5	496
molded	5	496
paraffine	5	496
Catoptrics	6	107
Cold light	7	288
Finsen light	11	228
Electric lighting	10	110
Gas illumination	12	308
Gas lighting	12	311
Illuminants. See Fuels and Illuminants.		
Light	17	415
beacons and buoys	17	429
standards of	22	9
Lighthouse	17	428
Lightships	17	429
Wax tapers	5	496

Lighting Apparatus

	Vol.	Page
Argand burner	16	679
Cadleabrum	5	494
Chandelier	6	283
Electric wiring and fixtures	10	113
Gas mantles, incandescent	12	310
Illuminator, dining-room	16	681
Lamps	16	678
astral	16	681
Benkler's	16	681
Betty	16	680
Canny	16	682
coal oil	16	682

Lighting Apparatus — cont'd	Vol.	Page
Cooper-Hewitt mercury vapor	10	111
Davy	16	682
differential	10	111
Edison carbon incandescent	10	112
electric	10	111
German student	16	682
grease-pot	16	679
in America	16	680
incandescent	10	112
	10	166
kerosene	16	682
miners'	16	682
Moore vapor tube glow	10	112
Nernst	10	111
painters'	16	682
safety	16	682
shunt	10	111
solar	16	681
terra-cotta	16	679
Tungsten	10	113
vapor	10	111
	10	167
	27	686
Lantern	16	737
hand	16	682
Lanthorn	16	737
Lighthouse lanterns	17	429
Lighthouse machines	17	429
Lighthouse optical apparatus	17	428
Lighthouse radiants	17	429
Mantle	18	238
Padella	21	92
Photometry	22	8
Searchlight	24	488
Welsbach light	29	189
Welsbach mantle	12	312

Ventilation

	Vol.	Page
Fans	11	11
mine	19	173
Punkah	23	23
Ventilation	14	51
air supply	14	52
control of humidity	14	53
fan system	14	52
medical aspects of	28	7
mine	19	173
withdrawal of impure air	14	53

HISTORY

General

	Vol.	Page
Aborigines	1	45
Ægean civilization	14	257
Ægean country, Early Minoan Age in the	14	265
later Neolithic Age in the	14	265
Ægean Period of civilization	2	157
Ætna (volcano)	10	555
Afghanistan	1	206
Africa, history of	1	211
	1	222
	1	224
international and diplomatic relations	1	221
intervention and colonization	1	222
	1	224
African Powers	14	292
Age	1	234
of Pericles	13	385
Ages of the world	1	234
Aix-la-Chapelle, Treaty	1	293
	14	283
	21	442
Alexandrian Library	1	373
Alexandrists	1	374
Allied War Commissions to the United States	1	420
Allobroges	1	423
Almoravides	1	433
	25	332
Amal	1	461
America	1	478
	1	479
American colonization	14	281
American Historical Association	1	521
American nationalism	19	758
American Revolution	19	758
	27	333
American treaties, importatnt	27	30
American War Commission to Russia	1	567
Andrassy Note	1	670
Anthropological factors in historical development	14	256
Anthropology. See **Ethnology and Anthropology.**		
Antiquaries	2	38
Antiquities of the Jews	2	38
Apanage	2	52
Aramæans	2	132
Arbitration, international	2	142
treaties	2	143
Archæology as the threshold of history	14	206
Archives	2	186
Imperial Russian	2	186
Arch, memorial and triumphal	2	150
Armenian era	2	267
	6	642
	10	437
Armenian question	2	268
Art of writing, mastery of the	14	206
	29	572
Asia and Europe, struggle between	14	268
Asia, early Semitic migrations into southwestern	14	265
Asia, history of	2	395
Asia Minor, history of	2	399
Assyria	2	428
Assyria, fall of	14	268
Assyrian Empire, rise of	14	267
Assyrian war-horses	14	386
Augustan Age	2	544
Austerlitz, Sun of	2	560
Aztecan civilization	2	163
Aztecan Confederacy	2	691
Babylonia, city, states and the political unification of	14	265
culmination and decline of	14	266
Sumerian Period in	14	265
Babylonians, earliest historical writings of	14	209
Bacchantes	27	640
Battiadæ	3	343
Beneficent despots of the Eighteenth Century	14	284
Benevolent despots	14	284
Berlin, Treaty of	3	565
	14	291
Black death	4	33
	22	141
Black flags	4	34
Blighty	4	82
Bosphorus	4	290
Brethren of Bacchus	27	640
Brets	4	472
Brettys	4	472
Brigands	4	536
Brits	4	472
Bronze Age	2	22
	4	586
in Italy and Sicily	14	266
Brunhilda	4	634
Byzantine Empire	5	107
Cæsar's Commentaries	5	142
Cæsarean era of Antioch	6	640
Calendar	5	191
	14	207
Canephorus	5	499
Cannæ	5	501
Cannibalism	5	502

General — cont'd	Vol.	Page
Caria	5	608
Carnival	5	640
Carthaginians	23	331
Carucate	5	688
Castelian	6	3
Centenary	6	199
Central Mediterranean region	14	268
Century, First	11	258
Second	24	511
Third	26	553
Fourth	11	556
Fifth	11	196
Sixth	26	60
Seventh	24	618
Eighth	10	36
Ninth	20	362
Tenth	26	437
Eleventh	10	230
Twelfth	27	214
Thirteenth	26	558
Fourteenth	11	551
Fifteenth	11	188
Sixteenth	25	53
Seventeenth	24	613
Eighteenth	10	28
Nineteenth	20	351
Twentieth	27	218
Chalcedon	6	249
Châtelain	6	3
Chilean Treaty (1882)	7	401
Chivalry	6	572
Christian era	6	641
	10	437
Chronological survey of the European War	28	279
Chronicle	6	686
Chronology	6	688
Cimmerian Bosporus	4	290
Civilization	14	290
a true history of	14	281
beginnings of	14	256
builders of	14	257
dawn of	14	265
early North European	14	257
history of	7	21
relation of geography to the development of	14	255
shifting of the centres of	14	255
Civilized peoples	14	294
Coherence of federations	11	83
Collective psychological historical interpretation	14	259
Colonial government	7	287
Colonies and colonization	7	295
Colony	7	300
Colossus of Rhodes	7	331
	24	611
Commemorative postage stamps	25	477
Commerce, history of	7	367
Commercial revolution	14	226
	19	748
	19	749
	29	528
Commercial struggles	14	282
Conflagrations (disasters of the world)	9	149
Constitutional historians, first great modern school of	14	253
Coronation	7	719
Cortes	8	27
Court Ceremonial	8	123
Crusades, The	10	234
Dark Ages	8	478
	11	199

General — cont'd	Vol.	Page
Democracy	7	24
ancient	8	652
history of	8	639
modern	8	652
primitive	8	652
the nature of	8	651
Despotism	14	282
Diplomatic history of the European War	28	267
Disasters of the world, notable	9	148
Discoveries, era of	14	226
Divine right	9	202
	23	540
Dual Alliance	14	292
Dynastic struggles	14	282
Early city-states	19	745
Early Hellenic culture	13	385
Early immigration to America	14	713
Early Iron Age	2	22
	14	267
Earthquake disasters	9	149
Eastern Europe	14	279
Economic history	9	556
Economic Liberalism	19	755
Elba, Italy	10	54
Electricity, Age of	14	293
Epoch	10	437
Era	10	437
of Actium	6	640
of Alexander	6	640
of Alexandria	6	641
of Antioch	6	640
	6	641
of Armenian	10	437
of Christian	10	437
of Constantinople	6	641
of Contracts	6	640
of Diocletian	6	641
of Julian	10	437
of Kings	6	640
of Martyrs	6	641
of Mohammedan	10	437
of Nabonassar	6	639
of Persia	10	438
of Rome	6	640
	10	437
of Spain or of the Cæsars	6	640
	10	437
of the Seleucides	10	437
of Tyre	6	640
Etna (volcano)	10	555
Fagot	10	711
Feud	11	159
Feudal chaos	14	279
Feudalism	14	291
	19	749
Feudal system	11	159
Fifteenth century, revival of	19	749
Fire-making	11	242
Fires, notable	11	257
First battle of the Marne	11	196
Floods, great	9	149
Genealogy	12	369
Geneva Convention	12	395
	14	433
Geographical factors in historical development	14	256
Great earthquakes (disasters of the world)	9	149
Great floods (disasters of the world)	9	149
Greek civilization, culmination and decline of	14	269
Greek culture	13	384
Greek genius, superiority of	19	746

General — cont'd	Vol.	Page
Greek Middle Age	14	267
Greek political power, culmination and decline of	14	269
Hague congresses	14	294
Hague Convention	28	670
Hague Court	2	143
	13	616
Hague Peace Conferences	2	143
	13	616
	18	535
Hallstatt culture	2	22
	13	649
Hanging Gardens of Babylon	24	610
Hebrew historical writing, origin of	14	209
Hellenes	14	268
Hellenistic culture	14	270
Hidden Island	17	667
Hindu eras	6	642
Historical biography	14	212
	14	222
Historical development, interpretation of	14	256
Historical interpretation, definite schools of	14	258
economic school of	14	259
Historical Seminar	14	245
Historical writing, national sentiment in	14	253
Historiography of humanism, characteristics of	14	220
Historiography, chief influences in the shaping of modern	14	226
History, ancient	14	264
catastrophic theory of	14	229
economic	9	556
geographical interpretation of	14	259
great events of	14	295
its rise and development	14	205
logic of	14	295
mediæval	14	274
modern	14	279
nature of	14	205
of international arbitration	2	143
of the Romance and Germanic peoples, 1495-1535	14	245
real unity of	14	256
sociological interpretation of	14	259
spiritual interpretation of	14	259
Holy Alliance	14	289
	14	325
Holy Roman Empire	2	633
	14	327
Huguenots in America	14	483
Humanism	14	220
	14	223
and historiography	14	220
Huns	11	196
	14	509
Iberia	14	615
	23	331
Iceland	14	628
Illyria	14	703
Illyricum	14	703
Immigration	14	713
and the World War	14	715
changing	14	714
early to America	14	713
Imperialism	14	724

General — cont'd	Vol.	Page
Imperialism, national	14	253
	19	752
Inca semi-civilization	14	733
Industrial and scientific revolutions	14	250
Industrial Revolution	14	251
	14	287
	15	96
	19	752
Intercursus Magnus	19	749
International claims and disputes	15	251
International morality	14	282
International Peace Conference	13	616
International Peace Movement	15	263
International relations since 1880	14	292
Inundations (disasters of the world)	9	149
Inventions	15	281
Iron, use of	14	268
Jewish eras	6	640
Jews and Judaism	16	84
Julian Period	10	437
Laissez-faire doctrines	14	282
Lake dwellings	16	658
	20	74
La Tène culture	2	22
	16	583
Latin Christendom	14	279
Latin civilization	14	271
League of Nations	19	761
constitution of	28	524
Leleges	17	276
Lettres de Cachet	10	32
	17	325
Levant	17	326
Lost Island	17	667
Marne, first battle of	11	196
Marx, economic determination of	14	252
Matriarchate	18	438
Mausoleum	18	453
	24	611
Mercantilism	9	557
	19	750
	19	761
Merchant vessels, neutral rights of	18	664
transfer of, from belligerent to neutral flags	18	665
Micronesia	19	33
Middle Ages	11	189
	19	39
	19	747
Arabic historians of	14	219
close of	14	279
Middle and New Kingdoms and the Empire of Egypt	14	266
Minoan Ages, Middle and Late	14	266
Modern dynastic national states	19	748
Mohammedan era	6	642
	10	437
Mohawk Conference on International Arbitration	13	617
Monarchic states	14	280
Mycenæan civilization	4	586
	19	678
Names	19	685
National consciousness, awakening of	14	268
National debts of the world	19	728
	28	650
National historical societies	14	250
National history, importance of local geographical conditions for the development of	14	256
National hymns	19	732
National ideals in the war	19	735
National ideals on the eve of the war	19	735
National imperialism	14	253
	19	752
Nationalism	19	743
and internationalism	19	760
modern	19	758
Nationality and historiography	14	284
National nicknames	19	740
Nation states, the age of	14	284
Natural science, notable advances in	14	251
Neolithic Age	2	22
	20	73
Neo-mercantilism	14	251
New France, history of	20	122
Nineveh	14	268
	20	361
Nobel peace prizes	20	384
North America	1	491
North German Confederation	14	291
Ocean disasters (disasters of the world)	9	150
Olympiads	6	639
	10	437
	20	673
Orient, Hellenization of	14	269
Pagan history	14	220
Pageant	21	97
Paleolithic Age	2	22
	21	180
Pan-American Conference	21	223
Pan-Germanism	21	225
Panslavism	25	94
Papacy	21	251
Patents, history of	21	382
Patriarchal empires of antiquity	19	746
Patriarchal system	21	401
Patricians	21	402
Peace Conference of 1919	28	512
Peace Society	21	441
Peace treaties	21	441
World War	28	521
Peace of Utrecht	2	631
	27	83
Persian era	6	642
	10	438
Phœnicians	21	786
Plagues and pestilences (disasters of the world)	9	149
Pogrom	22	279
Political growth of Carthage and Etruria	14	268
Political quietism	14	232
Political unification and the early centuries of the old kingdom of Egypt	14	265
Polychronicon	22	328
Popularization of national sentiment in Europe	19	751
Post and postal service	22	425
Pragmatic sanction	22	502
Pre-literary history	14	206
Press, freedom of	22	554
Printing, invention of	14	220
	14	280
	22	588
Progress	22	634
Progress, dynamic theory of	14	257
in natural and social science	14	251
Protection	23	671
Punic wars	23	17
Pydna	23	37
Pyramid of Cheops	24	611
Pyramids of Egypt	23	40
	24	611
Pyrrhic victory	23	46
Racial egoism	14	253
Rationalistic School of History	14	229
Reaction of Sociology upon historiography	14	252
Recrudescence of nationalism throughout the world	14	251
Reformation	19	749
	23	301
Religious wars	19	749
Renaissance	11	188
	14	220
	23	367
Renascence	23	367
Representation	23	386
Representative government	23	387
Repressed nations	19	754
Republics, earliest	23	401
history of	23	401
Revival of the 15th century	19	749
Revolutions of 1830	14	290
Revolutions of '48	14	291
Rise of historical scholarship, modern critical	14	243
Roman Era	10	437
Roman names	19	685
Romanticism and historiography	14	232
Romanticists	14	229
	14	243
	23	655
Saint Petersburg, Declaration of	24	166
Samoan Islands	24	223
Scalping	24	349
Serfdom	14	291
	24	591
Seven Cities	24	608
Seven Wonders of the World	24	61[illegible]
Silver Age	25	1[illegible]
Slavery	25	88
Spanish Era	10	437
Spain's first settlement upon the American continent	14	281
Stamps	5	669
	25	476
Statutes of laborers	19	761
Steam Age	14	293
Sumerian civilization	26	12
Surnames	19	686
Synchronism	6	638
Synchronous history	14	209
Synthetic historical interpretation	14	259
Syrian kingdoms, growth and decline of	14	267
Systematic history, attempts at	14	218
Teutonic culture	14	257
Tradition	26	764
Treaties of:		
Adrianople	1	155
	24	63
	28	632

General — cont'd	Vol.	Page
Treaties of:		
Aigun	1	273
	15	728
Aix-la-Chapelle	1	293
	17	679
Alais	1	308
	21	442
Alkmaar	21	442
Altradstadt	21	442
Amiens	21	442
Ancon	21	442
Antalcidas	2	11
	21	442
Antanarivo	21	442
Antony and Octavius	21	442
Aquisgrana	15	450
Arbitration treaty with France	27	33
Augsburg	2	541
	21	442
Baden	21	442
Bassein	15	16
Belgrade	21	442
Bergerac	21	442
Berlin	3	565
	21	442
	24	64
	28	632
Biac-na-Bato	21	442
Bordeaux	21	442
Breda	21	442
Breslau	21	442
Brest-Litovsk	4	470
	21	443
	26	381
	28	438
	28	634
Bretigny	21	443
Bromsebro	21	443
Bryan-Wilson	27	33
Bucharest	4	662
	21	443
	28	438
Callias	21	443
Cambrai	21	443
Campoformio	4	285
	15	451
	21	443
Carlowitz	16	310
	21	443
Cassini	15	729
Cateau-Cambresis	21	443
Cherasco	6	413
	21	413
China and Japan	6	536
	21	443
Cimon	21	443
Clair-on-Epte	21	443
Confians	21	443
Constance	7	552
	21	443
Constantinople	7	561
	21	443
Crepy-en-Laonnais	21	443
Dennikon	21	443
Dresden	21	443
Dyrrachium	21	443
El Zanion	21	443
Evora Monte	21	443
Extradition	10	673
	27	30
Falaise	21	443
Fleix	21	443
Foligno	21	443
Fommanah	21	443
Fontainebleau	17	683
	21	443
Frankfort	12	6
	27	34
Friburg	21	443
Fuessen	21	443
Ghent	27	485

General — cont'd	Vol.	Page
Greenville	13	440
	21	443
Guadalupe-Hidalgo	13	506
	21	443
	25	391
	27	218
Guerande	21	443
Guines	21	443
Hague	13	617
	21	443
Hamburg	21	443
Hodeiba	21	443
Hubertusburg	14	465
	21	444
Important American treaties	27	30
Indian	27	29
Jassy	15	752
	21	444
Jay's treaty	15	764
	27	360
	27	361
	27	485
Kiel	21	444
Kuchuk Kainarji	28	632
Kutayah	14	618
Kutschuk Kainardji	21	444
Ladies' Peace	21	443
La Granja	24	240
La Rochelle	21	444
Lausanne	21	444
Leoben	17	298
	21	444
Limerick	15	319
	17	441
Lisbon	21	444
Lodi	21	444
London	17	632
	21	444
Longjumeau	21	444
Lubeck	21	444
Lund	21	444
Luneville	21	444
Mangalore	21	444
Milan	21	444
Monsieur	21	444
Montpellier	21	444
Monzon	21	444
Munster	21	444
Nankin	27	34
Nanking	21	444
Nantes	9	584
	21	444
Naupactus	21	444
Nertchinsk	15	728
Nice	20	302
	21	444
Nicias	21	444
Nikolsburg	21	444
Northampton	20	426
	21	444
Nuremberg	21	444
Nystad	20	526
	21	444
	28	629
Oliva	21	444
Olmutz	21	444
Paris	19	26
	21	444
Passarowitz	21	368
	21	445
Passau	21	368
	21	445
Peace	17	82
	21	441
	27	360
	28	521
Peking	15	729
	21	445
Persia	21	445
Pinerolo	21	445
Pleswitz	21	445

General — cont'd	Vol.	Page
Pondicherry	15	14
Portsmouth	21	445
	24	54
	24	57
Prague	21	445
Presburg	21	445
Pretoria	21	445
Pruth	21	445
Pyrenees	21	445
	23	42
Rastadt	21	445
	23	223
	27	622
Reuil	21	445
Roeskilde	21	445
Ryswick	21	445
	24	74
Saint Germain-en-Laye	21	445
Saint Petersburg	21	445
	24	166
San Ildefonso	21	445
	24	240
San Stefano	21	445
	24	64
	24	246
Sardinia	21	445
Schonbrunn	21	445
Serpul	21	445
Seville	21	445
Shimonoseki	15	729
	21	445
	24	54
Sistova	21	445
Stockholm	21	445
Szathmar	21	445
Szegeddin	21	445
Tafna	21	445
Teschen	21	445
Thorn	21	445
	26	587
Tien-Tsin	21	445
Tilsit	21	445
	26	628
Tolentino	21	446
Troyes	27	101
Turin	21	446
Turkmauchay	21	446
Ulm	21	446
Unfortunate peace	21	446
United States with foreign nations	27	30
Utrecht	14	282
	14	473
	21	446
	27	622
Verdun	21	446
Vergara	21	446
Versailles	21	446
	28	36
	28	401
Vienna	21	446
	28	81
Villafranca	21	446
	28	81
Washington	27	321
	28	796
Wedmore	21	446
Werela	21	446
Westminster	21	446
	29	225
Westphalia	19	750
	21	446
	29	227
Znaim	21	446
	29	717
Zurich	21	446
Treaties, American, with the Barbary Powers, 1787–1805	27	361
Treaty abolishing pelagic sealing	27	33

General — cont'd	Vol.	Page
Treaty, American, with Tripoli, 1796	27	75
Treaty ceding Louisiana to United States	15	252
Treaty of Alliance	27	333
Triple Alliance	14	292
	27	70
	27	175
Triple Entente	14	292
	27	72
Troppau, Congress of	14	289
	27	95
Truce of God	10	233
	27	102
Turkey	27	186
Unification of Italy under Rome	14	269
Utrecht, peace of	27	622
Vagantes	27	640
Vandals	11	196
	27	680
Varagians	27	687
Varangians	27	687
Vatican archives	14	240
	27	697
Vienna, Congress of	14	287
	28	81
Vienna, treaties of	28	81
Visigoths	25	332
	28	135
Wales	28	225
Walloons	28	243
War. European	28	259
War of the National Monarchs	19	749
War of the Nations	19	754
	19	759
World federation	11	84
World map, changes in	14	283
World politics	29	526
World powers	14	292
See also section on **World War.**		

Archæology

Archæology — cont'd	Vol.	Page
Abbeville	1	13
Aboriginal art	1	45
Abu-Simbel	1	56
Acheul. Saint	24	120
Acheulean Age	7	21
Acheulean epoch	21	183
Acheulian stage	25	681
Achromic pottery	15	438
Adab	2	435
Adab (Ud-Nun)	4	20
Adab-Nirari	3	660
Adobe	1	147
Æneolithic Period	15	437
African Pompeii	26	633
Agade	2	435
Age	1	234
Age of polished stone	25	683
Agnone bronze tablet	15	428
Ailech of the Kings	15	326
Ailenn fort	15	326
Amarna letters	1	463
Amarna tablets	5	288
American Exploration Society	3	658
American Palestine Exploration Society	3	658
American Palestine Society	20	802
Ancient manuscripts	15	328
Ancón	1	654
Ancient Rome in the light of recent discoveries	1	654
Anglo-Saxon jewelry	16	53
Antiques	2	38
Antiquity	2	38
Aramaic inscriptions	2	133
Arch of Hadrian	19	420
Archæolithic Period	15	437
Archæological Institute of America	2	152
Archæological remains	23	87
Archæology	2	152
	2	336
	6	81
	14	256
American	2	158
Biblical	3	657
Christian	6	600
Classical	2	157
Egyptian	10	10
Italian	15	435
Peruvian	21	650
Architecture, sepulchral	24	575
Ardagh chalice	15	327
Armagh, book of	15	328
Arsinoë	2	334
	3	664
Arundelian marbles	2	370
As	2	373
Ashmolean museum	2	387
Ashurnasirpal	3	660
Asoka edicts	15	157
Assyria	2	155
	2	172
Assyrian excavation fund	20	798
Assyrian syllabary	15	156
Assyriology	2	431
	20	801
Atena lucana	15	439
Athena Polias, Temple of	22	571
Athene Nike	20	344
Atreus, treasury of	2	518
Aureus	2	554
Aureus nummus	2	554
Aurignacean epoch	21	184
Aurignacian	7	26
culture	25	681
Azilian epoch	21	186
Azilian-Tardenoisian invasion	25	683
Babylon	2	435
Babylonia	2	155
	3	7
Babylonian exploration fund	20	799
Babylonian gardens	16	708
Baccylides	3	665
Balawat	3	72
Ballymote, book of	15	328
Baltinglass, royal residence, Ireland	15	326
Barkal	3	255
Barrow	3	283
Beehive houses, Irish	3	428
Scotch	3	428
Belach-Chonglais Royal residence	15	326
Biblical archæology. New Testament	3	664
Old Testament	3	657
Biblical cycle	6	33
Bismya, Asiatic-Turkey	2	433
	4	20
Black gate	27	50
Bologna, Umbrian tombs of	15	439
Bôro-boudour	4	280
Boro buddor	4	280
Borsippa	2	435
	4	284
Boscoreale treasure	25	16
Boustrophedon	4	354
Brian Boru's Harp	15	331
British museum	4	563
British School of Archæology in Egypt	20	795
Brochs	4	570
Bronze Age	2	154
	4	586
	15	437
	16	49
	25	679
	25	694
Irish	15	325
Bronze lamps	15	679
Bronze, Siculan Age of	15	438
Bronzes	4	587
Brugh-na-Boinne, Royal cemetery of	15	326
Burial place of kings	15	326
Caelius mons	5	137
Cahokia mound	19	523
Cairns	5	148
	25	694
Caius Cestius, pyramid of	5	151
Campbeltown	5	282
Campidoglio	5	564
Candia	8	184
Capitol, Rome	5	564
Carnac	5	630
Caroline minuscules of the 9th century	21	180
Carrowmore	15	325
Cartouches	5	686
	14	174
Casa grande	5	692
Casa grande ruin	5	692
Casas grandes	5	695
Cashel Abbey	15	327
Catacombs	6	30
in Upper Egypt	6	30
Catacombs of Paris	6	31
Catacombs, Roman	6	31
Cathach or Book of the Battle	15	328
Catrail	6	107
Cave-dwellers	6	144
Cave man	18	186
Cave men	6	148
Cave of Altamira	21	186
Cave of Noto	6	30
Cavern of Niaux	7	21
Cemetery of Croghan	15	326
Cestius	6	232
Chaise	6	249
Chalcolithic Sardinia, pottery of	15	440
Chaldæa	2	172
	6	251
Chalice	6	252
Chellean epoch	21	182
Chellean stage	25	680
Chelléen	6	377
Chinese gardens	16	708
Chinese inscriptions	15	156
Christian archæology	6	600
Cimetière des Innocents	6	31
Cinerary urns	25	694
Circular Tomb of Hadrian	19	420
Cist	6	699
Citadel	6	699
City of Tombs	15	325
Classical archæology	2	157
Cleopatra's Needles	7	89
Clepsydra of Andronicus	19	420
Cliff dwellers	7	101
Cliff dwellings	22	789
Cliff palace	18	684
Clonmacnois	15	327
Cnossus	7	141
Code of King Khammurabi	8	302
Codex	7	197

Archæology — cont'd	Vol.	Page
Codex Alexandrinus	21	177
Codex Bezæ	3	665
Codex Ephræmi	21	177
Codex Sinaiticus	7	197
	21	177
Codex Vaticanus	21	177
Coliseum, Colosseum	7	252
Column of Trajan	7	345
	19	420
Comitium	7	363
Comus	7	456
Constantine Period	6	33
Contorniati	7	592
Copper Age	2	154
Corfe Castle	7	691
Countermark	8	105
Crannogs	16	658
Crete	8	184
Cro-Magnon race	21	185
Cro-Magnons	25	682
Cromlech	8	222
Cross of Cong	15	327
Crosses	15	327
Crosses and crucifixes	8	238
Cruachan Palace	15	326
Culture	7	26
Cuneiform script	15	156
Cuneiform writing	8	301
Curse of Vibia Roll	15	428
Cutha	2	435
Cuzco, Peru	8	347
Damascus blades	8	427
Damasene inscriptions	6	36
Darius	8	474
Deir El-Baheri	8	602
Delos (in the Ægean Sea)	8	626
Delphi, Greece	8	627
Deluge tablet	8	630
Deluge tablets	8	630
Denarius	8	674
Denderah, Egypt	8	676
Der El-Bachri	8	602
Devil's Dyke	9	40
Devil's Wall	9	40
Diana, Temple of	9	69
Diatessaron	3	666
Didaché	3	666
	9	91
Dightou Rock	9	117
Dimyxos	16	679
Dinnrigh royal residence	15	326
Diplomatics	9	140
Dodona	9	222
Dolmen	9	238
Dolmens, pottery of	15	437
Domnach Airgid	15	328
Druid stones	9	351
Duma na Giall	15	326
Dun Aenghus on Inishmore	15	327
Dun Cow, Book of	15	328
Durrow, Book of	15	328
Dur-Sargina	2	436
Earth, existence of mankind on	14	256
houses	9	494
Earth's surface, greatest known difference between lowest and highest points	14	585
Easter Island	9	508
Edfu	9	582
Edrei	6	145
Egos-Potamos	18	713
Egypt	2	156
	2	170
exploration fund	10	11
	20	795
Egyptian archæology and exploration	10	10

Archæology — cont'd	Vol.	Page
Egyptian hieroglyphics	15	156
Egyptian papyrus	21	263
Eilethyia	10	40
Elephanta	10	223
Island	6	147
Elephantine	10	223
Island	3	663
papyri	10	223
Elephant Isle	10	223
Elephant Mound	19	523
Elgin marbles	10	238
Ellora	10	257
Elora	10	257
Eluru	10	257
Eolith	10	408
Eolithic Age	2	153
Eolithic Period	21	182
Eolithic relics	25	680
Eoliths	25	680
Ephesus	3	668
	10	414
Epidaurus	10	419
Erech	2	435
	10	472
Eridu	2	435
Eryx	10	488
Etowah Mound	19	523
Etruria	10	556
Etruscan inscriptions	15	158
Etruscan jewelry	16	51
Etruscans	15	439
Eugubine tables	10	572
Festival of Lamps	16	679
Ficoroni Cist	11	174
Fire	7	21
	11	232
Flint implements	11	358
Forts, vitrified	28	155
Fortune, Temple of	11	523
Fotiad	15	326
Four Masters, Annals of	15	328
Gabii	12	214
Gallerus edifice	15	327
Gerasa	12	494
German Institute of Archæology	20	795
Giants, tombs of	15	440
Glendalough of the Seven Churches	15	327
Gnossus	7	141
Gold antique articles, Irish	15	325
Gorge d'Enfer	7	21
Graffiti	13	105
inscriptions	15	158
Grave Creek Mound	19	523
Greasepot lamp	16	679
Great Circle of Stennis	25	694
Great Pyramid	19	420
Great Rock of Behistun	15	156
Great Serpent Mound	19	522
Great Tumuli graves	17	773
Grecian papyri	21	270
Greek Cursive writing	21	178
Greek Minuscule manuscript	21	178
Greek paleography	21	176
Greek Uncial manuscript	21	177
	21	178
Greek Uncial writing of the 7th century	21	177
Grotto of the Nymphs	16	520
Gudea	3	660
great cylinder inscriptions of	14	209
Hadrian's villa	28	86
Halicarnassus	13	637
Hall of Columns at Karnak	24	607
Hallstatt Epoch	13	649
Hammurabi	7	24

Archæology — cont'd	Vol.	Page
Code of	3	8
	3	662
	3	659
	13	666
Heidelberg man	14	69
	25	680
Herculaneum	14	120
Herculanum	14	120
Heroöpolis	14	142
Hieroglyphics	14	171
decipherment of	14	174
Egyptian	15	156
grammar of	14	174
literature of	14	175
nature of	14	171
use of	14	173
High Cross of Monasterboice	15	327
Hildesheim treasure	25	16
Hissarlik	27	98
Historic Age	15	439
Holy Austin's rock	6	145
Homo heidelbergensis	25	680
Homo neanderthalensis	25	681
Homo sapiens	25	681
House of Cormac	15	326
Howth, garland of	15	328
Human origins, remoteness of	14	257
Hut remains	15	437
Hyloglyphs	14	595
Hymn to Marduk	3	662
Hymn of the Soul	3	667
Iberian inscriptions	15	158
Imgur-Bel	2	436
Incised tumuli	15	326
Inscriptions	15	155
catacombic	6	35
Etruscan	15	158
graffiti	15	158
Iberian	15	158
Phœnician	24	549
Sinaitic	2	133
International Congress of Anthropology and Prehistoric Archæology	5	550
Iona, ruins of	15	327
Ipsambul	1	56
Irish Academy, Royal	15	325
Irish archæological remains	15	325
edifices	15	327
gold articles	15	325
manuscripts, ancient	15	328
metal work	15	327
olympics	15	326
royal seats	15	326
sepulchral monuments	15	326
towers and crosses	15	327
Iron Age	2	155
	15	368
	16	49
	25	679
	25	694
Isiac table	15	411
Isis and Serapis, Temple of	15	412
Italian archæology	15	435
Jacob's Pillow	7	719
Jesup North Pacific Expedition	16	40
Jewelry	16	49
Etruscan	16	51
Jovilæ inscriptions	15	428
Jupiter Capitolinus, Temple of	16	253
Jupiter Serapis, Temple of	16	254

Archæology — cont'd	Vol.	Page
Jupiter Stator, Temple of	16	254
Juturna, Fountain of	16	268
Kadesh-Barnea	3	659
	16	275
Kailasa	16	278
Karli	16	310
Karnak, Hall of Columns	24	607
Kells, Book of	15	328
	16	343
Kells University	15	327
Kent Cavern (England)	21	180
Kent's Hole	16	363
Kertch Museum	16	52
Khorsabad	2	433
	20	361
Palace	2	440
Kings, burial place of	15	326
Kitchen-Middens	16	463
	20	74
Knife money	16	480
Knockaulin Fort	15	326
Kossima	3	659
Kuyunjik	2	433
	20	361
La Garma Grande	16	50
Lagash	2	435
Lake dwellings	2	169
	16	658
	20	74
Swiss	16	658
Lake Geneva dwellings	16	658
Lake Pfäffikon dwellings	16	658
Lake Prasias dwellings	16	658
Lake Zürich dwellings	16	658
Lamps	6	35
	16	678
Larnaudian Epoch	16	750
Larsa	2	435
La Semaine rings	23	531
La Tène Period	16	583
Latin Half-Uncial writing	21	179
Latin Uncial writing	21	179
Latin writing	21	178
Leabhar Breac	15	328
Leabhar na h'Uidhre	15	326
	15	328
Leacan, Great Book of	15	328
Lecan, Yellow Book of	15	328
Leinster, Book of	15	328
Lenâpé stone	17	283
Levallois flake	21	184
Liamhain, royal residence	15	326
Liber Hymnorum	15	328
Lindisfarne, Book of	15	328
Lion Gate	19	420
Lion in art	17	469
Lismore Crozier	15	327
Lituus	17	526
Livre	17	545
Loch Buy Brooch	16	50
Logia	3	666
Lost civilizations	14	257
Machu Picchu	21	652
Magdalenian culture	25	682
Magdalenian Epoch	21	185
Magdalenian stage	18	114
Manuscripts, illuminated	18	243
Maravedi	18	263
Mausoleum	18	453
at Kalicarnassus	19	420
Maya	18	462
Maya hieroglyphics	15	156
MacDurnan, Gospels of	15	328
MacRegol, Gospels of	15	328
Medallion	18	531
Medical papyrus	21	270
Merenptah	3	659
Mesa Verde	18	684

Archæology — cont'd	Vol.	Page
Metal Age	15	437
Metate	18	711
Mexican picture writing	29	573
Mexico, archæological remains of	2	162
	18	760
Military architecture, Byzantium	19	64
Egyptian	19	63
Greek	19	62
	19	63
Hittite	19	63
Mesopotamian	19	63
Roman	19	63
Mina	19	145
Minoan civilization	2	174
Mission Archéologique Française au Caire	20	795
Mite	19	269
Moabite stone	15	157
	19	277
Moidore	19	309
Monasterboice University	15	327
Monk's Mound	19	523
Monomyxos	16	679
Montezuma Castle	19	406
Monumenta Germaniæ Historica	19	420
Monuments	19	420
prehistoric	2	169
sepulchral	15	326
Moorish gardens	16	708
Mortar	19	485
Mosaics	6	35
	19	493
Mound builders and mounds	19	521
Mounds of the hostages	15	326
Mousterean Epoch	21	183
Mousterian Stage	19	534
	25	681
Mugheir	2	436
Mummy	19	561
Murrine vases	19	612
Museum of Archæology, University of Pennsylvania	19	622
Museums	19	619
classification	19	621
early American	19	619
government	19	619
modern American	19	621
popular display of	19	620
school work of	19	620
Mycenae	16	51
	19	678
Mycenean Products	15	438
Naas royal residence	15	326
National Museum in Dublin	15	326
Navan (N-Emain) Fort	15	326
Neanderthal	7	26
Neolithic Age	2	154
	13	174
	25	683
Neolithic Period	15	437
	20	73
Neptune, Temple of	20	78
Nestorian Monument	14	321
	20	86
Nike Apteros	20	344
Nippur	2	155
	20	368
Nisin	2	435
Noble	20	386
Norba, excavations of	15	439
Norchia, Biga of	20	397
Numismatics	20	494
Nuraghe	20	500
Nüraghes	15	440
Oaxaca, ruins of	20	534

Archæology — cont'd	Vol.	Page
Obelisk	20	536
Obolus	20	544
Ogam	20	604
Ogham stones	15	325
	15	327
Old Stone Age	25	680
Old Stone Period	2	153
	25	680
Olmie	6	146
Onomasticon	3	658
	20	692
Opus Hibernicum	15	327
Orchomenus	20	751
Oriental exploration fund of the University of Chicago	2	433
	20	800
Oriental research	20	794
Orient Gesellschaft	20	799
Ostraka	3	665
Oxyrhynchus	3	665
	3	666
	21	79
Pachacamac Temple	21	87
Palace of Emain	15	326
Palace of Tippu Saib	24	597
Palæography	21	176
Palæolithic Age	2	153
	13	174
Palenque, Mexico	21	139
Paleography	21	176
Greek	21	176
Paleolithic Period	21	180
	25	680
Paleolithic, upper	25	681
Palermo stele	14	208
Palestine Exploration Fund	3	658
	21	202
Palestine Society	3	658
Palmyrene inscriptions	2	133
Pantheon	21	250
Papal crypt	6	36
Papyrus	21	270
Egyptian	21	263
Elephantine	10	223
Grecian	21	270
medical	21	270
Turin	14	208
Parapegm	21	287
Parthenon	2	494
	19	63
Patera	21	389
Peisistratus' altar inscription	15	156
Pelasgian architecture	21	482
Pelasgians	15	439
	21	482
Persepolis	21	611
Peruvian archæology	21	650
Pestle	19	486
Petra	6	146
	21	674
Phigalian marbles	21	722
Philately	21	736
Phœnicia	21	786
Phœnician inscriptions	24	549
Picts' work ditch	6	107
Pictures of the Saviour	6	34
Piscina	22	117
Pompeii	15	440
	22	343
Pompey's Pillar	22	345
Roman	22	345
Pompey's Theatre	22	346
Porcelain pagoda of Nanking	21	103
Porcelain tower	22	372
Pre-Chellean Epoch	21	182
Pre-Chellean Stage	25	680
Pre-Chelleans	25	680

Archæology — cont'd	Vol.	Page
Prehistoric monuments..	2	169
Pyramid Age.....	14	257
Pyramids	2	170
	19	420
	23	40
Race, origins of.....	14	256
Ramesseum	23	202
Rameswaram	23	202
Rath Caelchon.....	15	326
Rath Grainne.....	15	326
Rath Laegaere.....	15	326
Rath na Seanaid.....	15	326
Rath of Synods.....	15	326
Rath of the kings.....	15	326
Red Branch Knights....	15	326
Relig-na-Rig	15	326
Remains, Irish archæological	15	325
Research, Oriental.....	20	794
Arabia	20	805
Asia Minor.....	20	804
Assyria	20	798
Babylonia	20	798
Egypt	20	794
general results of..	20	806
Palestine	20	802
Persia	20	800
Ring-money	23	528
Rock temples.....	23	597
Roman Cursive writing.	21	179
Roman rings.....	23	529
Roman walls of England	23	646
Roman walls of Rome...	23	646
Rome	6	30
	23	658
Rosa Americana.....	23	690
Rosetta stone.....	2	156
	14	174
	15	156
	20	794
	23	700
Royal seats and strongholds, Irish.....	15	326
Ruins of buried Pompeii	22	344
Ruins of Caer Segeint...	24	809
Ruins of Palmyra.....	21	218
	26	554
Ruins of Persepolis.....	21	624
Ruins of Rei.....	26	325
Runes	23	774
Runic inscriptions.....	15	158
Sa	24	174
Sabæans	24	76
Saint Chad, Gospels of..	15	328
Saint Enda of Aran, University	15	327
Saint Gall gardens.....	16	708
Sais	24	174
Sakhara	24	175
Salzburg	13	703
	24	217
Sarcophagus	24	297
Sardinia archæological remains of.....	15	440
Sassanide Palace.....	21	624
Sculpture	24	458
Sculpture, catacombic...	6	35
Selinus	24	543
Senchas-Na-Relac	15	326
Senjirli	19	63
Sepharvaim	25	44
Sepulchral monuments..	15	326
Sepulchrum Flaviorum..	6	32
Serapeum	24	577
at Memphis.....	24	577
Sestertius	24	606
Seven Romans, tomb of.	15	358
Shekel	24	679
Shell heaps.....	20	74
Shells	24	685
Shishonk	3	659
Shields	24	709
Shishak	3	660
Shrine of Saint Lactan's Arm	15	327
Shrine of Saint Patrick's Bell	15	327
Sicyon	24	785
Siloah	25	10
Siloam	25	10
inscription	24	549
Silver antiques.....	25	16
Sinaitic inscriptions....	2	133
Sinaitic palimpsest.....	17	332
Sippar	2	435
	25	44
Sippara	25	44
Skelligs edifice.....	15	327
Solidus	25	241
Solutrean culture.....	25	682
Solutrean Epoch.....	21	185
Sothic cycle.....	3	657
Sou	25	268
Sphinx, The.....	25	403
Statuary, catacombic....	6	35
Statue of the God Hadad	2	133
Stone Age.....	7	22
	15	437
	16	49
	25	679
Stone circles.....	25	684
	25	693
Stone of Destiny.....	7	719
Stone of Eualsheim.....	18	713
Stonehenge	2	47
	24	187
	25	687
Stone of Mesha.....	3	661
Stones	25	693
standing	25	693
Stowe missal.....	15	328
Sumerian civilization....	2	433
Sumerians	3	8
Sun-dial, first historic..	26	27
Swiss Lake dwellings...	16	659
Syria, archæological remains of.....	2	157
	25	185
Table of Canopus.....	17	311
Tabor	26	200
Tabula Bantina.....	15	428
Tabulæ Iguvinæ.....	15	158
Tabularium	26	201
Tahpanhes	26	216
Tailtenn	15	326
Tain Bo.....	15	328
	26	217
Tanis	26	242
Tara	26	265
Tara brooch.....	15	327
Tassilo Shahie.....	15	328
Tegea, Arcadia.....	26	324
Tehaphnehes	26	216
Tel-el-Amarna	2	433
Tell El Amarna.....	26	401
Tell-el-Amarna letters..	3	659
	15	156
Tell-el-Mutesellim (Megiddo)	3	658
Tell Hum (Capernaum).	3	659
Telloh	2	433
Tell Taanek (Taannach)	3	658
Temple	26	408
Temple of Karnak.....	24	787
Temple of the Sun.....	21	670
Temple of Venus.....	26	446
Temples of Osiris.....	24	607
Tennessee Mound Builders	26	426
Teocallis	26	439
	26	481
Terra-cotta lamps.....	16	679
Thaso-ruins	26	489
Thebes	26	504
Thermæ Himerensis....	26	443
Theseion	26	547
Thistle crown.....	26	568
Thumuis	3	665
Tiahuanaco	26	605
ruins	21	651
Timgad	26	633
Timgad architecture....	26	633
Tintern Abbey.....	26	642
Tiryns	26	644
Tomb	26	681
Tomb of Agamemnon...	2	518
Tomb of Mausolus.....	13	637
Tomb of Theodoric.....	19	420
Tomb of Galla Placidia	19	420
Totem	26	715
Tower	26	723
of Winds.....	19	420
round	26	723
Towers, Irish.....	15	327
Treasure of Bernay....	25	16
Tre'r Ceiri.....	27	48
Treves	27	50
Trilith	27	64
Trilithon	27	64
Tróo	6	145
Trophy	27	87
Troy	2	157
	27	98
Tsuba	27	118
Tumulus	27	144
Turin papyrus.....	14	208
Uncial writing of the 6th century	21	177
Ur	2	435
Ur of the Chaldees.....	2	436
	27	587
Ur expedition, Assyrian.	20	800
Babylonian 9.....	20	800
Urfa	27	246
Urukagina	7	26
Vases, Etruscan.....	10	557
Viking	28	86
Viking ships.....	24	113
Villa Adriana.....	28	86
Villafrati, bell cup of..	15	437
Vitrified forts.....	28	155
Wall-scratchings	15	158
Watling street.....	29	108
Wolfe expedition, Assyrian	20	799
Babylonian	20	799
Xanthian marbles.....	29	595
Yakub-ilu	3	660
Zimbabwe	29	709
Zimbabye	29	709
Zimbir	25	44
Zinfirli	2	434

Geography

Alleghany Mountains....	1	410
Alleghany Plateau.....	1	410
Alps	1	439
Amazon	1	468
Andes	1	662
Antarctic Continent.....	2	13
Antipodes	2	36
Ascians	2	380
Bad Lands.....	3	31
Baker, Mount.....	3	61
Basin	3	311
Bay	3	359
Bear Island.....	3	379
Belus	3	495
Benue	3	529
Big Horn Mountains....	3	693
Canaan	5	288
Catalan chart.....	14	577
Chart	6	336

Geography — cont'd	Vol.	Page
Coast and Geodetic Survey, United States	6	337
	7	168
Colorado River, or Colorado of the West	7	323
Commercial geography	12	416
Continent	7	585
Corinto	7	695
Cork	7	696
Cornhill	7	714
Cornwall	7	715
Cottian Alps	1	440
Delta	8	628
Developed projections	18	256
Dowets Atlas	18	254
Elevation	10	225
English Channel, or The Channel	10	361
Equator	10	460
Equatorial	10	460
Erebus, Mount	10	471
Fell	11	104
Fleet	11	341
French Guinea	12	69
French Indo-China	12	69
French Somaliland	12	79
French Sudan	12	80
French West Africa	12	80
Gazetteer	12	350
Geographer of the United States	12	408
Geographic names, United States board on	12	408
Geographic Society, National	12	408
Geography	12	413
Biblical	12	417
commercial	12	416
mathematical	12	414
physical	12	414
political	12	416
Glacier National Park	12	674
Globe	12	717
Globular chart	6	337
Gnomonic	18	255
Graian Alps	1	440
Greatest known difference between the lowest and highest points on the earth's surface	14	585
Hakluyt's map	14	577
High Plateatis	26	198
Hydrography	14	576
Hypsometry	14	609
Lepontine Alps	1	440
Loxodromic maps	18	254
Map	18	252
Ptolemaic	18	253
Mathematical geography	12	414
Mediterranean, key to the subregion	14	284
	18	590
Mercator's chart	6	337
Mesa Verde National Park	18	684
Mountains	19	531
	22	44
Navigation charts	6	337
Noric Alps	1	441
Orthographic	18	255
Orography	21	8
Overland route	21	59
Panhandle, The	21	244
Pannonia	21	247
Peneplain	22	147
Pennine Alps	1	440
Perspective projections	18	255
Peutinger's table	21	698
Physical geography	12	414
Placenza	22	51
Pindus	22	96
Plains	22	43
Plane chart	6	337

Geography — cont'd	Vol.	Page
Plateau	26	198
of Spain	26	198
of Tibet	26	198
Plateaus	22	43
Pnyx	22	268
Pole	22	300
Political geography	12	416
Portulani	14	577
Practical methods of construction	18	256
Projection	18	258
Ptolemaic maps	18	253
Rhaetian Alps	1	441
Rhine of America	14	471
Scale, map	18	257
Selenographical chart	6	337
Shipka Pass	24	729
Stereographic	18	255
Table-land	26	198
Tabula Peutingeriana	21	698
Tasman Sea	26	280
Territories	26	448
Terror, Mount	26	448
Thalweg	26	487
Theatrum Orbis Terrarum	18	254
Theoretical projections	18	255
Topographical chart	6	337
Topographical representation	18	258
Tropics	27	94
United States Coast Survey	6	337

Heraldry, Titles, Flags, etc.

	Vol.	Page
Accident	1	70
Accolade	1	76
Adoption	1	151
Ameer	10	295
Anthony, Saint, Cross of	2	17
Archelaus	2	166
Atheling	2	493
Aviz, Order of	2	680
Azure	2	692
Banneret	3	210
Bar	3	225
Baron	3	272
Baronet	3	272
Base	3	302
Bastard bar	3	321
Baton	3	339
Bearing	3	382
Bend	3	501
Bezant	3	605
Blazoning	14	114
Blazonry	4	72
Book plate	4	243
Bushido	5	73
Cadency	5	132
Charge	6	305
Chevron	6	432
Civic crown	6	725
Clan names	26	88
Clarencieux, or Clarenceux	7	35
Coats of arms	7	172
	14	112
Cockle, Order of the	7	187
Cœur De Lion	7	209
Comites Palatii	8	101
Count	8	101
Courier	8	113
Crescent	8	181
Crest	8	182
	14	114
Crown	8	247
Crowns and coronets	8	248
Custos urbis	22	501
Decorations. See Orders and Decorations.		

Heraldry, Titles, Flags, etc.— cont'd	Vol.	Page
Decorations, royal	20	764
Defender of the Faith	8	586
Device	9	37
Difference	9	105
Displayed	9	168
Earl	9	486
Earl Marshal	9	486
Effendi	9	714
Elephant, Order of the	10	222
Emir	10	295
Emperor	10	300
Endorse	10	323
Engrailed	10	387
Escutcheon	10	497
	14	112
Escutcheon of George IV.	14	113
Escutcheon of Loreyn	14	113
Esquire	10	507
Estoile	10	524
Exarch	10	617
Excellency	10	618
Excelsior	10	618
Fasces	11	50
Father of His Country	11	190
Fetlock	11	159
Fetterlock	11	159
Fimbriated	11	212
Fitché	11	299
Fitchée	11	299
Flag	11	308
Abyssinia	11	327
Alabama State	11	320
Alaskan	11	321
Albania	11	327
Ambulance Company	11	319
American, of the Foreign Legion	11	321
American Revolution	11	311
Argentina	11	327
Arizona State	11	320
Arkansas State	11	320
Assistant Secretary of Commerce, United States	11	318
Assistant Secretary of Navy, United States	11	318
Assistant Secretary of Treasury, United States	11	318
Austria-Hungary	11	327
Belgium	11	327
Bolivia	11	327
Brazil	11	327
Bulgaria	11	327
Bureau of Navigation	11	318
California State	11	320
Cambridge	11	313
Canada	11	327
Cavalry	11	318
Chief of Staff, The	11	318
Chile	11	327
China	11	327
Civil War of 1861	11	315
Coast Artilley, The	11	318
Colombia	11	327
Colorado State	11	320
Commissioner of Fisheries	11	318
Confederate	11	324
Connecticut State	11	319
Costa Rica	11	327
Crescent	11	312
Cuba	11	327
Delaware State	11	319
Denmark	11	327
Dimensions of American	4	316

Heraldry, Titles, Flags, etc.— cont'd Vol. Page

District of Columbia 11 320
Ecuador 11 327
Engineer Corps, The. 11 318
England 11 326
Every War..... 11 315
Field Artillery..... 11 318
Florida State..... 11 320
Flying Machine..... 11 319
Foreign Nations.... 11 326
France 11 326
Georgia State..... 11 319
Germany 11 326
Grand Union..... 11 311
11 312
Greece 11 327
Guatemala 11 327
Hawaii 11 320
Haiti 11 327
Honduras 11 327
Hospital 11 319
Idaho State..... 11 320
Illinois State..... 11 320
Indiana State..... 11 320
Iowa State..... 11 320
Italy 11 326
Japan 11 327
Kansas State..... 11 320
Kentucky State..... 11 320
Liberia 11 327
Louisiana State..... 11 320
Luxembourg 11 327
Maine State..... 11 320
Maryland State..... 11 319
Massachusetts State. 11 319
Mexico 11 327
Michigan State..... 11 320
Minnesota State.... 11 320
Mississippi State.... 11 320
Missouri State..... 11 320
Monaco 11 327
Montana State..... 11 320
Montenegro 11 327
Morocco 11 327
National, American.. 11 313
Naval Militia..... 11 319
Nebraska State..... 11 320
Netherlands 11 327
Nevada State..... 11 320
New Hampshire State 11 319
New Jersey State... 11 319
New Mexico State... 11 320
New York State..... 11 319
Nicaragua 11 327
North Carolina State 11 319
North Dakota State. 11 320
Norway 11 327
Ohio State..... 11 320
Oklahoma State..... 11 320
Oregon State..... 11 320
Panama 11 327
Paraguay 11 327
Pennsylvania State. 11 319
Persia 11 327
Peru 11 327
Philadelphia Light Horse 11 321
Philippine Islands.. 11 321
Pine-Tree 22 99
Porto Rico..... 11 321
Portugal 11 327
President's 11 317
Proctor 11 313
Red Cross Nurse Service 11 319
Religious 11 319
Revolution of 1777.. 11 315
Rhode Island State.. 11 319
Rumania 11 328
Russia 11 327

Heraldry, Titles, Flags, etc.— cont'd Vol. Page

San Domingo..... 11 328
Secretary of Commerce 11 318
Secretary of Labor.. 11 318
Secretary of the Interior 11 319
Secretary of the Navy 11 318
Secretary of the United States Treasury 11 318
Secretary of War... 11 318
Serbia 11 328
Siam 11 328
South Carolina State 11 319
South Dakota State. 11 320
Spain 11 327
State flags..... 11 319
Submarine 11 319
Submarine Warning. 11 319
Sub-ordinary United States flags..... 11 317
Sweden 11 328
Switzerland 11 328
Taunton 11 313
Tennessee State..... 11 320
Texas State..... 11 320
Turkey 11 328
Union 27 286
United States..... 11 310
11 312
United States Cadet. 11 319
United States Coast Survey 11 318
United States Consular 11 319
United States Customs 11 318
United States Infantry 11 318
United States Marine 11 318
United States Naval Academy 11 318
United States Naval Reserve 11 319
United States Public Health 11 318
United States Signal Corps 11 318
United States Yacht. 11 318
Uruguay 11 328
Utah State..... 11 320
Venezuela 11 328
Vermont State..... 11 319
Virginia State..... 11 319
War with Mexico (1846) 11 315
War with Spain (1898) 11 315
War of 1812..... 11 315
Washington State.. 11 320
West Virginia State. 11 320
Wigwag 11 319
Wisconsin State..... 11 320
World War..... 11 315
World War Service. 11 319
Wyoming State..... 11 320
Fleece, Order of the Golden 11 341
Fleur-de-Lis 11 350
Fleury 11 351
Flowers, symbolism of.. 11 396
Garter, Order of the.. 9 704
12 300
Golden Fleece, Order of. 13 26
Golden Spur, Order of the 13 28
Grafen 8 101
Hatchment 13 754
Heraldic crosses..... 8 240

Heraldry, Titles, Flags, etc.— cont'd Vol. Page

Heraldry 14 111
modern 14 111
science of..... 26 161
Heralds College..... 14 112
Holzgrafen 8 101
Hospodar 14 433
Impale 14 722
Key 16 385
King-at-Arms 16 434
Laquais 8 113
Lord 17 656
Lord Chamberlain..... 17 656
Lord High Chancellor.. 17 656
Lord-Lieutenant 17 657
Lord of the Isles..... 17 657
Mantle 18 238
Mantling 18 238
Margrave 18 281
Markgrafen 8 101
Marquess 18 311
Marquis 18 311
Milites stationarii..... 22 502
Mirza 19 223
Missi 19 228
Modern heraldry..... 14 111
Mollah 19 326
Monseigneur 19 377
Motto 14 114
Mudir 19 548
Mufti 19 548
Mullah 19 326
Old Glory..... 11 317
Orders. See **Orders and Decorations.**
Orders, royal..... 20 764
Padishah 21 93
Pale 21 138
Pater Patriæ..... 11 190
Peer and Peerage..... 21 470
Pennant 21 517
Peter Force flag collection 11 321
Pfalzgrafen 8 101
Pilgrim shells..... 24 685
Positions for the colors. 11 316
Præfect 22 501
Præfectus ærarii..... 22 502
Præfectus aquarum..... 22 502
Præfectus prætorio..... 22 502
Præfectus urbi..... 22 501
Præfectus vigilum..... 22 502
Prætor 22 502
urbanis 22 502
Prefect 22 528
Prefet 22 528
Presidents of the United States, coats-of-arms of 22 549
Prime ministers..... 22 578
Prince 22 580
Prince of Wales..... 13 237
22 583
Proconsul 22 629
Procurator 22 632
Proprætor 22 629
Pursuivant 23 31
Quatrefoil 23 70
Raja 23 195
Rajah 23 195
Ravenna 23 234
Rebus 23 266
Red Cross, Order of the Royal 23 278
Roi d'Armes..... 14 112
Rose 23 694
Scallop shells..... 24 685
Science of heraldry..... 26 161
Scrip 24 455
Scroll 14 114
Scutcheon 24 709
Sea-horse 24 474

Heraldry, Titles, Flags, etc.— cont'd	Vol.	Page
Seal	24	479
Sendgrafen	8	101
Shields	24	709
Signet	24	804
Star	10	524
Stars and Stripes	11	311
Sultan	26	8
Supporters, heraldic	14	114
Surnames	26	88
	26	89
terminations	26	89
Symbol	26	159
Talbot	26	221
Thame	26	488
Titles	26	651
courtesy	26	652
hereditary	26	652
in the United States	26	652
modern rulers	26	652
Tokens and trophies	11	321
Totem	26	715
Trefoil	27	36
Tricolor	27	55
Union Jack	27	286
Viscount	28	183
Wales, Prince of	22	583
	28	224
White Plains banner	11	312

CONTINENTAL HISTORIES

Europe

Europe — cont'd	Vol.	Page
Aix-La-Chapelle, Congress of	1	293
Aix-La-Chapelle, treaties of peace concluded at	1	293
Aland Islands	1	309
Alani	1	309
Alans	1	309
Alost	1	434
Andrassy note	1	670
Antwerp	2	48
Augsburg, League of	2	541
Peace of	19	748
Austrasia	2	621
Balkan League	3	82
Balkan wars	3	87
Barrier Treaty	3	279
	27	622
Belgium	3	462
Black Death	4	33
	11	551
	11	586
	16	99
Blood and Iron	4	110
	14	291
Bohemia	4	157
Bohemia, history of	4	157
	14	222
Bohmen	4	157
Bosna	4	288
Bosna-Sarai	4	287
Bosnia	4	288
Bourbon family	4	346
Brabant	4	378
Braganza, House of	4	391
Brenner Pass	4	466
Bretwalda	4	473
Bruges	4	628
Brussels	4	642
Brussels Conference	4	643
Bucharest, Peace of	4	662
Bulgaria	5	2
Bulgarians	28	632
Byzantine Empire	5	107
Cæsar's Commentaries	5	142
Carlsbad, Congress	5	622
decrees of	5	622
Catalan Grand Company	6	37
Celtic peoples	6	185
Cimbri	6	677
Congress, European, first	14	281
Copenhagen	7	647
bombardment	12	31
Cracow	8	147
Crimea	8	194
Crown of the Holy Roman Empire	8	249
Crown of Wenceslaus	8	249
Crusades	8	255
Czecho-Slovaks, The	8	382
	28	630
Danegeld	8	450
Danegelt	8	450
Dardanelles	8	472
Declaration of Paris	8	564
	24	487
Dei Gratia	8	601
Denmark, history of	7	304
	8	682
Europe	10	581
European civilization	11	697
Family compact	11	5
Finland, history of	11	224
Finnish Peoples	11	227
	28	628
Flanders	11	332
Frangipani	12	4
Franks	12	18
Gaiseric	12	401
Galicia	12	236
Genseric	12	401
Germanic Confederation	11	82
Gibraltar	12	643
Golden Age	13	25
Hansa	11	81
	13	684
Herzegovina	4	288
Holy Roman Empire	2	633
	11	81
	14	327
House of Anjo	4	347
of Bourbon	4	347
of Orleans	4	347
Iceland, history of	14	628
Illyria	14	203
Inquisition	15	147
Kaiser	16	279
Knight	16	483
Latium	17	97
Letts	17	325
	28	629
Louvain	17	692
Merovingian dynasty	11	198
Milan Decree	19	54
Nobility	20	384
Normans	20	406
	26	437
Norway	20	436
Oorfa	27	246
Oubliette	21	51
Papacy	21	251
Plague, history of	22	140
Poland	22	286
partition of	14	284
Poles	28	629
Political revolutions of 1848	25	176
Pontus	22	332
Euxinus	22	353
Portugal	22	413
Potidæa	22	448
Pressburg	22	557
Priene	22	671
Pydna	23	37
Ramillies	23	203
Republics, history of	23	408
Revolution of 1848, European	11	82
	19	753
Rumania	23	766
Rumanians	28	631
Saint Petersburg, Declaration of	24	166
Saint Stephen's crown	8	249
Samothrace	24	224
Sarajevo	4	287
Sarmatian	24	305
Savoy	6	327
	24	331
Schleswig-Holstein question	24	379
Serbia	24	581
Seven Years' War	14	283
	19	761
	24	611
Simon Breac	11	230
Slavonia	25	92
Sofia	25	224
Spain	7	300
	25	331
Sweden	7	304
	26	117
Sweden in the World War	26	121
Tiberiopolis	4	287
Thirty Years' War	19	750
	26	565
	26	567
Tyre, Bank of	27	246
Ukraine	27	255
	27	259
Union of Utrecht	11	81
United Netherlands	11	81
	27	622
Varna	27	689
Vasa, House of	27	692
Viborg	28	289
Walloons	28	243
War, European	14	342
	28	280
War of the Polish Succession	22	308
Wiborg	29	289
Ypres	29	669

For histories of principal European Countries, see under their respective headings in Section **National Histories.**

Asia

Asia	Vol.	Page
Abu'l Abbas	1	56
Abbassides	1	10
	13	744
Acre	1	102
Aden	1	136
Ali	1	399
Arabia	2	118
Armenia	2	267
Asia	2	395
Assyria	2	428
chronology	2	437
Babylon	3	7
Bagratians	3	43
Betlis	3	593
Bitlis	3	593
Borneo, history of	4	279
	7	300
British Empire in Asia	4	559
Byblos	5	94
Cammagene	7	363
Cappadocia	5	569
Caria	5	608
Damascus	8	426
Ceylon, history of	6	238
Chalcedon	6	249
Damascus	8	426
Euphrates	10	577
Gaga	12	349
Ghassan, kingdom of	2	119

Asia — cont'd	Vol.	Page
Ghuri	12	636
Hedjaz	14	75
Hejaz	14	75
Ilkan	5	223
Java, history of	7	300
	15	751
Kassites	16	313
Korea, history of	16	523
Marcanda	24	220
Mecca	18	497
Medes	14	268
	18	584
Medina	18	587
Mesopotamia and the World War	18	688
Micronesia	19	33
Moluccas	7	300
	19	331
Nabatæans	19	676
Nineoch	14	268
	20	361
Palestine	21	199
Persia	21	616
and the World War	21	622
modern	21	621
Phœnicia	21	786
	25	331
Phœnicians	21	786
Phrygia	22	22
Seleucidæ	14	269
	24	540
Sidon	24	788
Smyrna	25	140
Sumatra	7	300
	26	11
Syria	26	189
Tyre	27	245
Yemen, kingdom of	2	118

For histories of principal Asiatic Countries, see under their respective heading in Section **National Histories.**

Asia Minor

Asia Minor	2	399
Bithynia	4	24
Broussa	4	641
Brussa	4	641
Charasmian sultans	5	223
Ephesus	10	414
Ilium	27	98
Isauria	15	409
Lycia	17	770
Lydia	17	772
Pergamum	21	582
Pergamus	21	582
Sardis	24	392
Seljuks of Iconium	24	543
Trebizond	27	34
Troy	27	98

Africa

Abyssinia	1	59
Achikunda	1	90
Adowa	1	140
	1	151
Afridis	1	227
Agadir	1	229
Ahmed Shah	1	271
Air	1	276
Algeria	1	396
Asben	1	276
Ashantee	2	383
Ashanti	2	383
Bagirmi	3	41
Benue	3	529
Binue	3	529
Boma	4	198
Bona	4	202

Africa — cont'd	Vol.	Page
Bougie	4	324
British Empire	4	560
Cairo	5	148
Calabar	5	152
Candace	5	493
Cape of Good Hope	5	544
	7	301
Carthage	5	681
perished	5	682
rise of	5	681
Carthaginians, religion of the ancient	5	683
Cazembe's dominion	6	156
Cyrenaica	8	370
Cyrene	8	371
Doctrine of the Hinterland	14	199
Fez	11	164
Fezzan	11	164
First Punic War	5	682
Gold Coast Colony	13	12
Gondar	13	45
Guendar	13	45
International Association of the Kongo	4	198
Knobkerrie	16	488
Little Mecca	4	324
Matabeleland	17	552
Mboma	4	198
Morocco, history of	19	468
Outlanders	27	254
Republics, history of	23	406
Rorkes Drift	23	688
Second Punic War	5	682
Senegal, first military territory	24	562
first settled	24	561
Soudan	25	787
Sudan	25	787
Tunis	27	145
Uitlanders	27	254
Wadai	28	204
Waday	28	204

See also **Egypt.**

North and Central America

Central America, history of	6	202
Chronology, American primitive	10	438
Costa Rica, history of	8	41
Dominican Republic	9	244
Erie, Lake	10	476
Estotiland	10	525
Haiti	13	626
history of	7	300
Honduras	14	349
Huguenots in America	14	483
Mayflower	7	302
	18	465
Newfoundland	20	268
Nicaragua, history of	20	306
North America	1	491
Panama, history of	21	228
Pious Fund of the Californias	13	618
	22	106
Salvador	24	210
West India Islands	29	205

See also **United States; Mexico, etc.,** below.

South America

Ab-Ku-Kil-Chel	6	377
Argentina	2	201
Bojaca, battle of	4	176
Bolivia, history of	4	184
Brazil	4	427
national hymn	19	733

South America — cont'd	Vol.	Page
Cajamarca	5	151
Callao	5	225
Calvo doctrine	5	241
Cape Horn	5	547
Carabobo	5	581
Caracas	5	582
Cartagena	5	676
Chel-Ab-Ku-Kil	6	377
Chile, or Chili	6	499
Chile, history of	6	501
Civilization of Latin America	17	4
Colombia	7	276
Colombia, history of	7	278
Colon	7	285
Colonia Independencia	7	286
Continental Treaty	25	283
Córdoba, or Cordova	7	688
Dabaiba	8	385
Darien, Colony of	8	474
Ecuador	9	571
First autonomic government in South America	2	202
First colony in South America	2	202
Inca government	23	88
Inca semi-civilization	14	733
Latin America, history of	17	1
Latin America in modern imperialism	29	546
Lima	9	75
Little Venice	27	733
Monroe Doctrine	25	285
Pan-American Congress	25	285
Paraguay, history of	21	281
Patricians	21	402
Peru	7	301
	21	648
Quichnas, civilization of	23	88
culture of	23	88
empire of	23	88
Republic, The	2	203
Rivadavia, Bernardino	2	204
South America	1	491
	25	280
South America, American diplomatic relations with	25	281
Trinidad	13	697
Uruguay	27	599
Venezuela	27	727
Venezuelan boundary dispute	27	735

NATIONAL HISTORIES

United States

Abnaki	1	43
Abolition and Free Soil movements	27	396
Abolitionists	1	44
Acoma, New Mexico	1	95
Adams family	1	127
Adirondack Mountains	1	139
Adirondack Park	1	140
Adirondack Preserve	1	140
Admission of Texas	27	407
Agamenticus, Mount	1	230
Agreements between colonies and states	4	335
Alabama	1	297
Claims	15	251
Alamance Creek (N. C.), battle of	1	308
Alamo, The	1	309
Alaska	1	310
	1	318
Boundary Tribunal	1	514
land boundary	4	330
purchase of	27	455

United States — cont'd	Vol.	Page
Alaskan Boundary Commission	1	320
	4	330
Albany	1	328
Congress	1	329
Regency	1	329
Alien and Sedition Acts.	1	400
Allatoona Pass	1	452
Altoona Pass	1	452
American armies	27	513
American as official designation	1	499
American Civil War	7	6
	11	82
	19	758
	23	445
	27	403
American Conflict	1	510
diplomatic conditions during the World War and the peace negotiations	27	333
American expansion policy	1	514
American Expeditionary Force	27	514
American Flag-day Association	11	309
American Loyalists	1	539
American medals	18	531
American neutrality in European War	28	612
American people, altitude of, in European War	28	612
American progress	14	289
American Revolution	11	81
	14	242
	14	284
	23	449
American tariff system	5	37
American War Commission to Russia	1	567
American War for Independence	23	449
Amistad Case	1	576
Amnesty Proclamation	1	583
Anglo-American Treaty of 1871	24	57
Anglo-Hessian occupancy	27	46
Annapolis Convention	1	716
	7	565
Annexation of Hawaii	1	719
Annexation of Texas	27	384
Annexations to the United States	1	718
Anti-rent agitation	2	38
Anti-Slavery Society, American	2	40
Avery's Gores	2	675
Apache	2	51
Apalachee	2	52
Appalachian America	2	71
Appomattox Court House	2	93
Arbitrations, history of, United States	27	484
Arbitration treaties	2	143
Argonauts of '49	2	225
Arizona	2	254
Arkansas	2	259
Arlington Confederate Monument Association.	2	262
Aroostook War	2	324
	4	331
	5	418
Articles of Confederation	2	358
	11	81
and Perpetual Union	27	312

United States — cont'd	Vol.	Page
Ashburton Treaty	2	384
	11	201
Atlantic Coast plain	27	376
Atlantic Gardens	4	569
Austria-Hungary, diplomatic relations with	2	635
Back lands	27	376
Bacon's Rebellion	3	24
	3	26
	3	556
	13	362
Ball's Bluff	3	110
Baltimore	3	118
family	3	119
Md., attack on	3	118
Bangor	3	143
	18	659
Barataria, pirates of	3	229
Barbara Frietchie	3	231
	18	367
Barbary Powers, United States treaties and wars with	3	232
Battle above the Clouds.	3	345
Battle-ground	3	346
Battle Hymn of the Republic	3	346
Battle of Princeton	27	47
Bayard family	3	363
Bay State	3	360
Beacon Hill	3	373
Bear Flag War	3	379
Bennington, battle of	3	521
Black Beaver	4	32
Blackfeet Indians	4	41
Black Friday	4	35
	8	478
Black Hawk	4	35
War	4	35
Black Kettle	4	36
Black Laws	4	37
	12	43
Blacklist	4	42
Blackstocks Hill	4	46
Bladensburg	4	51
Blaine-Bond Reciprocity Treaty	5	360
Block House bridge	22	268
	22	269
Block Island	4	91
Bloody Shirt	4	115
Blount's conspiracy	4	118
Blue Grass State	4	125
Blue Hen's Chickens	8	613
Blue Hen State	4	125
Blue Laws	4	125
Blue-Light Federalists	4	126
Blue lodges	4	126
Border ruffians	4	267
Border States	4	268
Border War	4	268
Boston	4	298
Case	4	300
Corner	4	337
Massacre	1	125
	4	294
	4	301
Port Bill	4	294
	4	302
Public Library	3	329
Tea Party	4	294
	4	302
	18	401
	27	311
Ten Towns	4	337
Boundaries between colonies of different European nations	4	335
Boundaries, island	4	330
Boundaries of the original possessions	4	330

United States — cont'd	Vol.	Page
Boundaries and territorial growth	27	361
Boundaries of the United States, and disputes regarding	4	329
exterior and interior	4	329
Bound Brook	4	329
Bowling Green	4	365
Braintree	4	408
Resolutions	4	408
Brandy Station	4	413
Brandywine, battle of	4	414
Brattleboro	4	420
Bridgeport	4	527
Brier Creek	4	535
Bristoe Station	4	552
Bristol Station	4	552
Bristou Station	4	552
British colonists	27	341
British West Indies, diplomatic relations with	4	563
Broad Seal War	4	567
Brooklyn	4	593
borough of	20	213
Brownsville	4	623
Buckeye State	4	665
Buena Vista	4	684
Buff	4	688
Buffalo	4	692
Historical Society	4	694
Bulwer-Clayton Treaty.	5	20
Bunker Hill	5	25
Burns' Coffee House	4	569
Burr's Southwestern Empire	11	297
Cabrillo National Movement	5	128
Cailloux	6	155
California	5	198
Lower or Old	5	216
Cambridge, Mass	5	250
Camden	5	255
battle of	5	256
Camp Black	14	92
Canonicus	5	523
Cape Ann Settlement	5	542
Capitol at Washington	5	565
Carillon	28	24
Carolina, Original Constitution of	5	646
Carpenters Hall	5	654
Carpet Bag	20	417
Carpet-Baggers	5	656
	27	432
Carpet-Bag Régime	5	656
	27	432
Cary Rebellion	5	691
Castle Garden	6	8
Catawbas	6	47
Causes of the War of 1812	27	370
Cayugas	6	155
Cayuse	6	155
Centennial Exhibition	6	199
Centennial State	6	200
Central America, diplomatic relations with	6	205
Central American Conference	27	487
Charter Oak	6	339
Cherokee	6	415
Nation v. Georgia	6	417
Cheyenne	6	433
Chicksaw	6	454
Chippawa, battle of	6	562
Chippewa	6	564
Chrystler's Farm, battle of	6	650
City of Magnificent Distances	6	716

United States — cont'd	Vol.	Page
City of Oaks	6	718
Civil and religious liberty in the United States	27	468
Civil War in America	1	516
	7	6
	19	758
	23	445
causes of	27	408
Clarendon, Colony of	7	36
Clayton-Bulwer Treaty	4	660
	7	75
	11	745
	19	374
Clermont	7	91
	18	659
Colombia, Treaty with	7	279
	21	235
Colonial beginnings of public school evolution	22	774
Colonial governments, proprietary	7	287
Colonial history	28	120
Colonial Period	11	310
Colonial Post in America	22	426
Colonial subdivisions by powers other than England	4	335
Colonial wars in America	7	289
Colonization Society	12	43
Colorado	7	317
Columbia	7	335
	18	658
Committees of Correspondence	7	407
Committee of Correspondence, Inspection and Safety	7	408
Committees of Safety	7	407
Compromise of 1820	7	449
Compromise of 1863	7	449
Compromise of 1850	4	660
	7	450
Confederacy, The	27	413
Confederate Congress	27	414
Confederate government, formation of	24	508
Confederate States of America	7	489
	11	83
recognition of	7	492
Confederation, articles of	2	358
	11	81
Confederation of the United States from 1781-1788	11	82
Congress, Continental	7	507
of Religions	7	509
of the United States, sessions and political parties in	7	510
	7	513
Congressional Campaign of 1918	22	311
Congressional reconstruction	27	430
Congressional Record	7	518
Connecticut	7	524
Land Company	7	79
Reserve	29	222
Conservative	7	548
Constitution (Old Ironsides)	7	576
Constitution of the Confederate States	27	416
Constitution, framing of	7	564
of 1787	14	290
of the United States	7	571
Constitutional Amendments, history of	7	575
ratification of	7	577
Constitutional Union Party	7	577
of 1860	4	268
Continental Congress	7	507
	11	313
first	27	311
Continental Navy	7	586
Continental Stamp Act Congress	18	364
Continentals	7	589
Control of the Oregon Territory	27	454
Conventions, constitutional, in the United States	7	604
revolutionary	7	609
Conway Cabal	7	619
Cornecracker State	7	707
Cornell University	1	140
	7	711
Corntassel	6	417
Cotabato	8	56
Council for New England	22	264
County government in the United States	8	108
Cowboys	8	133
Cradle of Liberty	8	148
Crédit Mobilier of America	8	173
Creeks	8	175
Creole	8	179
Creole, The	5	419
Case	8	179
Crises, economic	8	205
Crittenden Compromise	4	268
	4	661
	8	214
Croatoan	8	214
Cuba, American diplomatic relations with,	8	287
and the Spanish War	27	365
Cumberland Road, The	8	299
Cuttyhunk	13	69
Mass.	8	345
Dacia	8	388
Danish West Indies	1	516
	1	517
	28	115
Dark and Bloody Ground, The	8	478
Dark Day	8	478
Dead line	8	526
Declaration of Independence	7	3
	8	561
	16	2
	27	331
signers of	8	562
Declaration of Paris	8	564
	27	363
Declaration of Rights	8	565
Declaration of War	8	565
Decoration Day	8	567
Delaware	8	608
Indians	8	615
Territory	4	335
Delfshaven, Holland	8	619
Delftshaven, Holland	8	619
Democracy in the United States	8	647
Democratic party	8	655
Democratic societies in the United States	8	669
Democrats, The	22	311
Deseret, State of	8	720
Des Moines	9	12
Detroit	9	31
Diplomacy	1	510
	27	359
of the Civil War	27	364
of the United States in the Orient	27	364
Disputed elections	27	473
Dissolution of the Union	24	506
District of Columbia	9	193
Dog soldiers	6	433
Dominican Republic, diplomatic relations with	9	246
Dorchester	9	263
Dorr's Rebellion	9	268
	15	201
Dred Scott Decision	4	660
	7	2
	9	322
Duluth, Minn	9	394
Dutch in America	9	430
Duzine	9	444
Easton, Pa	9	514
Edmunds Anti-Polygamy Act	9	590
Efforts to settle the slavery question	27	399
Emancipation, first public demand for	27	17
Emancipation Proclamation	10	271
Emergency Fleet Corporation	18	662
Empire State	10	301
Enchanted Mesa	1	95
English America	24	617
Era of Franklin in Pennsylvania	21	529
Erie, Lake, battle of	10	476
Esopus War	10	501
Everglades	10	599
Executive reconstruction	27	429
Expansion of the territory of the United States from 1800 to 1917	27	456
Fabius, The American	10	691
Falls of Saint Anthony	14	96
Faneuil Hall	11	10
Father of the Constitution	5	194
Father of the Greenback Party	5	277
Federal City, The	9	194
Federal Constitution	13	655
of 1787	11	81
of the United States	11	82
Federal Convention	27	394
of 1787	27	343
Federal government, origin of federation	11	81
Federal Hall	11	84
Federalist, The (essays)	11	85
Federalists	11	85
Federal participation in road construction	23	559
Federals	11	86
F. F. V's	10	690
Fifty-Four, Forty or Fight	11	201
Filibusters	11	207
Fire-eaters	11	234
First Continental Congress	27	311
First Families of Virginia	10	690
First naval battle between American and British forces	22	239
First permanent English colony in America	22	262
First public demand for Emancipation	26	17

United States — cont'd	Vol.	Page
First railroad in New England	23	98
First Secretary of the Navy	5	126
First shipload of slaves to the United States	25	88
Fisheries Question	11	286
Fisheries and sealing	27	363
Fishkill Landing	11	294
Fishkill-on-Hudson	11	294
Five Nations	15	27
Flag Association, The American	11	308
Flay Day	11	308
Flag mottoes	11	310
Flag of the United States	11	310
salute to	11	316
Flags of the American Revolution	11	311
Flags, State	11	319
Flags, United States sub-ordinary	11	317
Florida	11	376
purchase of	27	454
Treaty of	11	379
Flying Cloud	18	659
Food Control Law	11	432
Ford's Theatre	11	467
Forefathers' Day	11	467
Forest fires	11	468
Fort Corlear, Schenectady	17	166
Formation of the Confederate government	24	508
Fort Dearborn	11	498
Fort Dummer	4	420
Fort Duquesne	4	383
	11	499
	22	133
Foundation principles, Hooker's	11	541
Founders and patriots of America	11	541
Founders of Vermont	28	25
France, diplomatic relations of the United States with	11	743
Franklin's autobiography	12	17
Franklin, State of	12	15
Fraunces' Tavern	12	28
Free negroes	12	43
Free ships	18	661
Freedmen's Bureau	12	48
French Alliance with the United States	12	61
1778	27	360
French spoliation claims	12	80
Fries Rebellion	1	417
	12	109
Fugitive Slave Law	4	268
	12	149
	24	503
Gabriel's Insurrection	12	215
Gadsden Purchase	12	217
	27	318
	27	455
Gadsden Treaty	4	335
Garden State	20	136
Garner Case	12	294
General Outline History (1776-1920), United States	27	311
Geneva Arbitration Award	12	394
Geneva Convention	1	513
	12	395
Georgia	12	483
German accessions in Pennsylvania	21	529
Ghent, Treaty of	12	632

United States — cont'd	Vol.	Page
Gnadenhütten, massacre at	12	735
Gorgeana	13	65
Governor's Conference	13	98
Governor's Island	13	98
Granary, The	13	122
Granby Token	13	122
Grandfather Clause	13	131
	20	640
Grand Union Flag	11	311
Granite State	13	134
Grasshopper Constitution	20	29
Great pacificator	13	359
Great Seal of the Confederacy	13	300
Great Seal of the United States	13	362
Great swamp fight	23	469
Great World War and American neutrality	27	365
Greeley-Lincoln Correspondence	27	420
Green Mountain Boys	13	425
Green Springs, Va., battle of	13	426
Greenville (Ohio), Treaty of	13	440
Half Moon	13	636
	20	197
Hall of Fame	13	644
Hampton Roads Conference	13	670
Harper's Ferry	4	608
	13	721
Harrisburg Convention	13	727
Hartford Convention	13	739
Hartford Resolutions	8	656
	13	740
Hawaii	1	517
	14	3
	27	455
Hawaiian-American annexation	14	5
Hawaiian Islands, diplomatic relations of the United States with	14	3
Hay-Bond Treaty	5	361
Haymarket massacre	1	451
Haymarket Square riot	14	20
Hay-Pauncefote Treaty	14	15
	19	375
Hay-Varilla Treaty	21	235
Henry Documents	14	108
Henry Ford Peace Expedition	11	465
	27	538
Hermitage, The	14	132
Hessians in the Revolution	14	159
Hiawatha	14	164
	15	390
Higher Law	14	184
Highlanders, Scotch, in the United States	14	185
House of Burgesses	7	407
Houston, Texas	14	450
Huntington, N. Y.	14	519
Imago Mundi	1	274
Immigration	14	713
	27	465
and the war	14	715
Bureau of	14	715
changing	14	714
early, to America	14	713
legislation	14	714
restrictive	14	714
old and new	14	714
Impeachment	14	722
	27	476
Inauguration Day	14	733
Indentured servants	23	286

United States — cont'd	Vol.	Page
Independence Hall	14	749
Indiana	15	37
Indian Act (1871)	27	29
Indian affairs	15	26
Indian Day	15	28
Indian pipes	22	109
Indian population	15	27
Indian treaties	27	30
Indians, American	15	43
civilization of	15	56
Institution of slavery	24	503
Insurgents	22	637
Insurrection	15	201
Inter-Allied War Conference in Paris	4	89
Interior boundaries	4	335
International boundaries, surveys of	26	100
International claims and disputes	15	251
Iroquois League	15	390
Island boundaries	4	330
Jacksonian Democracy	14	290
	15	576
Jacksonian Period	27	317
Jamestown Tercentennial Exposition	15	610
Jayhawker	15	763
Jay Treaty	1	513
	14	331
	15	764
Jefferson-Burr imbroglio	16	5
Jefferson, State of	16	5
Jewish interior settlements	16	134
Jewish settlements, early, in the United States	16	133
Jews in America	16	131
Jews in the army, navy and public service generally	16	135
Jerusalem Plank Road, engagement near	16	33
Johnny Reb	16	166
Johnson - Clarendon Treaty	5	425
Judge's Cave	16	233
Kansas-Nebraska Bill	9	280
	16	301
Kentucky Resolutions	16	372
King Cotton	16	434
King Philip's War	7	290
	19	706
King William's War	16	441
Kitchen Cabinet	16	463
Knickerbocker	16	479
Knights of the Golden Circle	16	485
Know-Nothing Party of 1856	4	268
	16	494
Know-Nothings	18	367
Koszta Affair	16	534
Ku-Klux Klan	16	549
	17	778
	20	417
	25	204
	27	433
Ku-Klux Law	24	687
Labor movement in America	16	600
Lac du Saint Sacrement	16	38
Lake and river boundaries	4	329
Lake-to-Sea Commission	16	661
Lawrence, Mass	17	148
League of Gileadites	4	607
Lecompton Constitution	4	660
	17	211
Lewis and Clark Expedition	17	335

United States — cont'd	Vol.	Page
Liberty Bell	3	478
	17	350
Liberty Boys	17	350
Liberty or Death	11	312
Lincoln-Douglas Debate	16	498
	17	447
Lincoln's policy on slavery	17	449
	27	420
Lincoln's Reply to Greeley	27	420
Liquor legislation	17	497
Little Crow	17	520
Little Giant	17	521
Little Rock, Ark	17	523
Little Turtle	1	114
	17	524
Living Flag	11	309
Livingston Manor	17	543
Log Cabin and Hard Cider Campaign	13	731
Lone Star State	17	635
Long Island, battle of	17	638
Lost Cause	17	667
Lost Colony	8	214
Louisiana	17	683
Louisiana Purchase	4	331
	11	86
	14	290
	17	683
	27	368
	27	453
Louisiana Purchase Exposition	17	685
Louisiana Territory	16	3
Louisiana Treaty	11	744
Louisville	17	689
Loyalists	17	706
Lusitania	17	750
	27	365
Maine Boundary Treaty	18	150
Manor of Pittsburgh	22	183
Mag-pe-yah-luta	23	277
Mariana	18	284
Maryland	18	358
Maryland, My Maryland	18	367
Massachusetts	18	399
Massachusetts Bay Company	4	293
Massasoit	18	414
Mayflower	4	385
	7	302
	18	401
	18	465
Compact	18	466
passengers	18	465
Mecklenburg Declaration of Independence	1	366
Medicine Dance	18	583
Medicine Man	18	584
Memorial Day	8	567
Merchant Marine of the United States	18	657
Merry Mount	18	682
Mescaleros	18	685
Mexican Cession	27	454
Mexican War	18	793
	23	444
	27	389
Mexico, doplomatic relations with	18	797
Miami Indians	19	8
Michigan	19	26
Midnight Judges	19	44
Midway Islands	1	516
	19	45
Millions for Defense, but Not a Cent for Tribute	22	94
Milton, Mass	19	139
Minnesota	19	205
Mischianza	19	225

United States — cont'd	Vol.	Page
Mississippi Bubble	19	247
Mississippi river	19	248
Missouri	19	258
Missouri Compromise	19	261
	27	315
Mobile	19	280
Mohawks	19	308
Molly Maguires	19	329
	22	102
	25	204
Monroe Doctrine	11	744
	11	746
	13	670
	14	290
	14	325
	16	4
	19	372
	19	373
	19	736
	27	362
Montana	19	392
Monticello	19	411
Montgomery Congress	27	413
Moore's Creek	19	434
Morey Letter	19	449
Morill Tariff	22	672
Mormons	5	617
	19	463
Mother of Presidents	19	512
Mother of States	19	512
Mountain Meadows Massacre	19	531
Mount Vernon	19	527
Mulligan Letters	19	560
Nancy Tea Party	17	542
Narragansett Indians	19	706
Nashville Convention	19	718
Natchez Indians	8	175
	17	167
National cemeteries	19	726
National debt, United States	19	730
National Education Association	19	731
National Flag Day Society	11	309
National parks and monuments	19	740
National Republican Party	19	742
National Salute to the Flag	11	316
National University	19	743
Nat Turner's Rebellion	19	719
Naturalization questions	19	771
	27	364
Navajo Indians	19	784
Navigation Act	20	15
Neale's American Post	22	426
Nebraska	20	24
Negro in America	20	47
Negro conspiracy	13	659
Negro disfranchisement	20	52
Negro exodus	20	55
Negro plot	20	56
Negro slavery	27	392
Neutrality and its difficulties, 1793-1812	27	361
Neutral nation	20	102
Nevada	20	105
Newburgh Addresses	20	262
Newburgh sedition	20	262
New Albion	20	111
New Commonwealth of Pennsylvania	21	532
New England	20	121
a compendious history of	20	121
Company	22	264
Emigrant Company	20	121
honor flag	11	311

United States — cont'd	Vol.	Page
Newfoundland, the Atlantic fisheries dispute	20	266
New Hampshire	20	123
grants	28	24
New Jersey	20	136
first governor of	17	542
foreigners	20	146
plan	20	146
New Mexico	20	148
New Netherlands	20	153
	27	340
New Orange	20	153
New Orleans	17	167
	20	153
New Roof, The	20	160
New Somersetshire	20	161
New Swedeland	20	163
New Sweden	20	163
New Switzerland	13	140
New York	20	188
	20	212
provincial convention	11	294
Nicaragua Canal	20	307
Treaty of 1884	20	308
Nicaragua Canal Treaty of 1916	20	309
No Man's Land	13	69
	20	381
Norridgewock Indians	20	407
North American Phalanx	20	411
North Carolina	20	412
North Dakota	20	419
Northeast boundary dispute	20	428
Northeastern boundary	4	331
Northern boundary	4	332
North Virginia Company	22	264
Northwest boundary dispute	20	430
Northwest boundary question	5	359
Northwestern boundary	4	332
Northwest Territory	20	432
Norumbega	20	436
Nottoway Indians	20	460
Nova Cæsarea	20	462
Nullification	20	484
Nutmeg State	20	510
Ocala platform	20	554
Ohio	20	609
Company, The	20	621
Oklahoma	20	635
movement	21	433
Old Bay State	20	652
Old Colony	20	654
Old Dominion	20	655
Oldest city, United States	24	122
Old Glory	20	655
Old Line State	20	655
Old North State	20	656
Olmstead Claim	20	669
One Hundred Committee	20	688
Oneida Indians	20	689
Ordinance of 1787	19	26
	20	769
Oregon	20	772
Orleans, Territory of	20	816
Ostend manifesto	21	26
Ottawa Indians	21	47
Ottoman Empire, The, diplomatic relations with United States	27	195
Outagami	21	54
Pageants in the United States	21	98
Palatines	21	529
Palmetto State	21	215
	24	77

United States — cont'd	Vol.	Page
Panama Canal	19	758
	21	233
zone	4	330
	21	235
Panama Congress	21	239
Paraguay expedition	23	444
Paris declaration	1	513
	8	564
	27	363
Parsons' cause	14	107
	21	351
Passamaquoddy question	5	359
Passamaquoddy Indians	21	367
Patriots Day	21	404
Paulus Hook	21	422
Pawnee Rock	21	430
Payne-Aldrich Tariff Bill of 1909	5	361
	26	270
Pennacook Indians	26	516
Pennamite wars	21	516
Penn's Experiment in Pennsylvania	21	526
Pennsylvania	21	526
boundary controversies	21	531
New Commonwealth	21	532
Penobscot expedition	21	540
Peopling of the United States	27	339
Peoria	21	562
Pequot War	7	290
	18	401
	19	706
Philadelphia	21	726
Philippine Islands	7	301
	17	241
	21	748
American interests in	29	542
under American rule	21	753
under Spanish rule	21	752
Piedmont, battle of	22	72
Pilgrim Fathers	1	418
	18	401
Pilgrims	27	339
landed from the Mayflower	22	262
Pinta	22	105
Platte Country, The	22	239
Plymouth Colony	18	401
Plymouth Company	4	335
	22	264
Plymouth, Mass	22	262
Plymouth (N. C.), engagements at	22	263
Plymouth Rock	22	262
Po River, engagement on	22	268
Portland, Me	22	394
Ore	22	397
Post and postal service	22	425
Potomac, Army of the	22	449
Company, The	22	449
Presidential candidates	27	556
President Wilson's War Message of April, 1917	19	735
	28	485
Presidents of the Texas Republic	26	465
Presidents of the United States	22	547
family coats-of-arms of	22	549
graves of	22	550
Princeton, battle of	22	585
	27	47
Prigg Case, The	22	574
Privateering	22	611
Progressive party	22	636
Progressives, The	22	637
Proprietaries	22	668

United States — cont'd	Vol.	Page
Protection in America	22	672
Providence	22	708
Plantations	22	708
	26	465
Province House	22	709
Public lands:		
Connecticut	22	764
Georgia	22	764
Massachusetts	22	764
New York	22	764
South Carolina	22	764
Texas	22	764
United States	22	763
Virginia	22	764
Pueblo tribes	22	790
Purchase of Alaska	27	455
Purchase of Florida	27	454
Quaker Hill, battle of	23	56
Quaker Republic	21	528
Quakers	12	106
	27	393
Quids	23	89
Quivira	23	100
Raleigh's connection with the exploration and settlement of North America	23	196
Rambouillet decree	15	252
Randolph plan	23	210
Ratification of the Constitutional Amendments	7	577
Readjusters	23	248
Rebel yell	23	265
Reciprocity Agreement, Canada	27	33
Reciprocity Treaty	5	425
	5	426
	11	287
	23	397
Reconstruction	27	320
	27	429
Redemptioners	23	286
Red line map	23	282
Red shirts	23	285
Refunders	23	248
Registration of voters	23	324
Regulators	23	325
Relations with Mexico	27	366
Relations with Spanish-American states	27	362
Reply to Hayne	23	384
Representative government	23	387
Republican party	23	391
Republican party, Jeffersonian	23	399
Republicans, The	22	312
Republics, history of	23	404
Rescue mobs	27	401
Reservations, Indian	23	410
Resolutions of '98	23	415
Resolves	18	380
Respect for the Flag	11	316
Revenue Cutter Service	23	443
Revere's Midnight Ride	23	446
Revolution, American	27	333
Revolution, causes of	27	327
Revolutionary War	4	333
	27	311
Rhode Island	23	468
Roanoke Colony	23	563
Roanoke Island, battle of	23	563
Rocky Gap, engagement at	23	612
Rocky Mountains	23	618
Roger's Rangers	23	629
Rogersville, engagements at	23	631
Ross Family	23	705

United States — cont'd	Vol.	Page
Rough Riders	8	134
	23	720
Rum, Romanism and Rebellion	5	32
Russia, diplomatic relations with	24	55
Russian Arbitration Treaty	24	58
Russian Extradition Treaty	24	57
Russian Treaty, 1824	24	56
Russian Treaty of 1867	4	329
	24	57
Russo-American Treaty of 1832	24	56
	24	58
Sacketts Harbor, N. Y.	24	88
Saint Augustine	24	122
Saint Joseph, Mo	24	138
Salary grab	24	179
Salem, Mass	24	180
Salt Lake City	24	205
San Antonio	24	231
Sand Creek, Colorado	6	433
Sand Creek massacre	24	251
San Francisco	24	237
earthquake	24	239
Panama-Pacific International Exposition of 1915	24	39
San Juan question	24	243
Santa Catalina	24	277
Santa Fé	24	281
Sassacus	24	309
Savannah	18	659
	24	324
Schenectady	24	368
Scioto Company	24	422
Scranton	24	449
Sea boundaries	4	329
Sealing investigations	24	485
Sealing Treaty	24	485
Secession	24	500
	27	405
causes of	24	501
	24	507
doctrine of	24	505
end of	24	509
history of	24	501
in the United States	24	500
of West Virginia	24	509
Seminoles	11	375
	24	546
Seminole War	23	444
	24	547
Sharpsburg, Md	24	662
Shay's rebellion	24	668
Shenandoah Valley	24	692
	24	696
Signers of the Declaration of Independence	8	562
Six Nations of the Iroquois	25	49
Skinners	8	133
	25	76
Slavery	24	501
	25	88
	25	293
	25	295
	27	391
	27	419
institution of	24	503
Slaves in America, first	24	502
Slave trade	23	443
	27	362
Somerville	25	252
Sons of America	11	309
Sons of Liberty	11	311
	25	259
Sons of the Revolution	11	309
	25	259

United States — cont'd	Vol.	Page
South America, American diplomatic relations with	25	281
South Carolina	25	288
South Carolina — secession	24	507
South Dakota	25	297
	25	302
Southern opposition to slavery	27	396
Southern and southwestern boundaries	4	333
Spain, American diplomatic relations with	25	340
Spanish-American War	8	282
	23	445
	27	439
Specie circular	25	366
Specie resumption	25	366
Springfield	25	456
Squatter sovereignty	9	280
	25	464
Stadt-huys	11	84
Stamp Act	4	294
	18	364
	27	311
	27	328
Stars and Bars, The	25	504
Star Spangled Banner	11	316
	18	366
	25	490
Stars and Stripes	11	311
Starved Rock	25	505
Star of the West	1	114
	25	491
State cessions of public lands	22	764
State participation in road construction	23	559
Statuary Hall, National	25	537
Steamers, packets and clippers	18	659
Stonington	25	695
Surveys, United States governmental	26	98
Susquehanna Company	26	102
Swedes colony — Pennsylvania	21	526
Switzerland of America	20	126
Syracuse	26	183
Tacoma	26	206
Tampa	26	238
Tariff	26	268
administration in the United States	26	270
Tariff of abominations	5	194
Tariff of 1913	22	672
Taunton	26	284
Tea Act	7	407
Tennessee Centennial Exposition	26	432
Tennessee — constitutional history	26	429
Territorial expansion, United States	27	452
Texas	26	464
	27	454
Thayendanegea	4	415
Thermopylae of America	1	309
	26	546
Ticonderoga, history of	20	610
Toledo, history of	26	673
Too Proud to Fight	26	690
Tories	17	706
	26	715
Treatment of American Indians by whites	15	56
Treaty ceding Louisiana to United States	15	252
Treaty of Detroit	19	27
Treaty of Fort Stanwix	16	181
Treaty of Ghent	4	331
	4	332
	11	286
	18	150
Treaty of Grenville	19	26
Treaty of Paris	4	330
	11	286
Treaty of San Lorenzo el Real	4	333
Treaty of Shackamaxon	21	528
Treaty of Washington	5	361
	11	287
Treaty regulating trade	24	55
Treaty with France	15	252
Treaty with Panama	21	235
Trent Affair	27	44
Trenton, once Federal capital of United States	27	47
Tripolitan pirates	16	4
Tripolitan War	27	76
Troy	27	100
Turkey, diplomatic relations with United States	27	195
Tusayan	27	209
Tybee	27	231
Underground railroad	27	272
Undoing of reconstruction	27	433
Union League of America	27	287
United States	14	290
	27	305
abolition and free soil movements	27	386
alien and sedition laws	27	355
Amendments to the Constitution	27	434
and Cuba	8	281
and the European War	27	535
annexation of Texas	27	384
arbitrations, history of	27	484
Cabinet	27	353
causes of the Revolution	27	327
colonial and territorial systems	27	351
commission	4	89
Confederation, articles of	27	335
civil and religious liberty	27	469
Civil War, causes of	27	403
military events	27	410
Civil War, political events of	27	417
Confederacy	27	413
Declaration of Independence	27	331
diplomacy	27	359
disputed elections	27	473
Federal Convention of 1787	27	343
foreign policy	27	531
general outline history (1776-1920)	27	311
immigration	27	463
impeachment	27	476
industrial and commercial development	27	503
loans	19	730
Louisiana Purchase	27	368
Mexican War	27	389
New Democracy and the spoils system	27	380
party organization, beginnings of	27	348
peopling of	27	339
political parties	27	528
Post and postal service	22	425
President's office	27	478
Presidents and Vice-Presidents of	27	538
reconstruction	27	429
Revolution	27	330
	27	333
Secession	27	405
slavery	27	391
	27	399
Shipping Board	18	662
Speaker of the House	27	482
State Constitutions	27	456
State Constitutions, formation of	27	336
suffrage	27	466
negro	27	467
territorial expansion	27	453
Vice-Presidency	27	481
war with France	27	367
War of 1812, causes of	27	370
War with Spain	27	439
wars of	27	539
Westward movement	27	375
Valley Forge	27	650
Venezuelan boundary dispute	27	735
Vermont	28	23
in the Revolution	28	27
Vevay, Ind	13	140
Vice-Presidential candidates	27	559
Vincennes	28	94
Vinland	1	117
	28	108
Virginia	28	122
Virginia colony	27	339
Virginia convention	14	108
Virginia conventions of the Revolution	28	125
Virginia declaration of rights	18	380
Virginia peace convention	4	661
Virginia - Pennsylvania boundary dispute	28	128
Virginia resolutions	16	372
Wade Hampton's cavalry	22	268
Walking purchase	21	530
	28	232
Wapakoneta	28	255
War Democrats	28	677
War of 1812	1	512
	11	86
	18	658
	23	444
	27	370
causes of	27	370
War with Germany and Austria	27	544
Washington (D. C.), campaign against, and burning of	28	794
Earley's attempt on	28	795
War of the Revolution	27	311
War with Spain	27	439
Warwick Patent	6	339
Washington elm	28	798
Washington State, history of	28	785
Washington, Treaty of	28	796
Washoe country	20	106
Watauga Association	12	15
	29	7
Waterways Treaty of 1909	5	361

United States — cont'd	Vol.	Page
Webster-Ashburton Treaty	4	332
	5	359
	29	152
West, The	27	379
West as a factor in American politics	29	199
Western Reserve	29	222
Westminster massacre	28	25
West Virginia	29	208
West Virginia and Maryland boundary dispute	29	217
West Virginia and Virginia debt question	29	219
Westward movement	27	375
What-Cheer	29	241
Whigs	29	255
Whisky insurrection	4	382
	11	85
	12	109
	29	260
Whisky rebellion	14	183
White Caps	29	270
White Camelia, Knights of	29	270
White House	29	271
White League	29	272
Wide Awakes	29	295
Wilderness Route	29	316
Wilkes expedition	14	4
	29	319
Willetpoo	6	155
William Henry, Fort	29	337
Wilmot Proviso	9	280
	27	318
	29	355
Wilson Bill	29	368
Wineland	28	108
Wisconsin	29	417
	29	423
Witch Hill	29	430
Worcester vs. Georgia	29	514
World's Columbian Exposition	29	557
World War	27	325
	28	259
Writs of Assistance	4	294
Wyoming	29	582
massacre	5	83
X. Y. Z. correspondence	29	595
Yankee	29	613
Yazoo Fraud, The	29	619
Yukon	29	674
Zion National Monument	29	714
Zona Libre	29	724
See also Government and Political Science — United States; Military History and Science—United States; World War.		

United Kingdom and Dominions

United Kingdom and Dominions — cont'd	Vol.	Page
Abolition of the property qualification for Members of Parliament	13	198
Aboukir Bay	1	87
Acadian refugees	5	415
Acephali	1	83
Act of Settlement	1	106
	4	637
Act of 1778	5	453
Addled Parliament	1	133
Address, The	1	133
Adoption of Protestantism	13	230
Adullamites	1	156
Advertisements of Elizabeth	1	166
Afghanistan, relations with	13	199
Agincourt	1	237
Agreement of the People	1	241
Alberta	5	340
Albion	1	338
Allotment and appropriation of Lands for the Support of Protestant Clergy	5	420
Almanza	1	431
	13	194
Almonry schools	1	433
Alnick Castle	1	434
	16	15
Alnwick	1	434
American Civil War	13	199
American War of Independence	13	195
Ancient legends	13	233
Angevin despotism	13	178
Angevin Empire	13	178
Angles	1	683
	11	560
Anglia, East	1	684
Anglican movement	13	198
Anglo-Norman Invasion of Ireland	15	318
Anglo-Saxon	1	688
supreme political capacity of	14	251
Annals of the Four Masters	9	257
Annual immigration from Britain to Canada	5	540
Annual immigration from the United States to Canada	5	456
Annual Parliaments	13	198
Anti-Corn Law League	5	618
	13	198
Argyle, Campbells of	2	232
Aroostook War	5	418
	20	428
Arthur's Seat	2	357
Ashburton Treaty	2	384
Assiento Treaty	13	194
Assiniboia	5	340
Aston Hall	2	448
Athabasca	5	340
Australasia	29	543
Australia	13	192
Federal Constitution	11	82
history of	2	570
	7	303
	14	290
Australian Foundation Day	2	570
Austro-Prussian War of 1866	13	199
Azincourt	1	237
Ballot Act	13	199
Balmoral Castle	3	111
Bannockburn	3	210
	13	180
Banquo	3	215
Barebone	3	246
Barebones Parliament	3	246
Baroach	4	567
Baron's Coronet	8	250
Barons' War	3	273
Bass Rock	3	316
Bate's Case	3	330
Bath, Knights of the	3	334
Batoche	5	340
Battle of Bosworth (1485)	13	181
Battle of Crecy	13	180
Battle of Hastings	13	177
Battle of Poitiers	13	180
Battle of Ridgeway	11	116
Battle of Saint Albans (1455)	13	181
Bedlam	3	416
Beefsteak clubs	3	428
Begums of Oude	13	751
Bell Rock	3	479
Belted plaid	22	144
Belvoir Castle	6	15
Benevolence	3	509
Berlin Decree	3	565
Bernicia	13	175
Berwick	3	583
Besika Bay	3	585
Big Bear	5	340
Bill of Rights	3	704
	13	189
Black Assize	4	32
Black Death	4	33
	13	180
Black Friday	4	35
Blackheath	4	41
Blacklist	4	42
Black Monday	4	37
Black Prince	4	37
Black Saturday	4	38
Blaine-Bond Reciprocity Treaty	5	360
Blarney	4	63
Castle	6	15
Blenheim	13	194
House	4	77
Bloemfontein	4	102
Blood Indians	4	110
Bloody Assizes	4	115
	16	7
Bloody Falls	4	115
Bloody Mary	4	115
Bloody Tower	4	115
Blue-Mantle	4	126
Boadicea	4	135
Boar's Head	4	136
Bois-Brûlés	5	424
Boroimhe	4	487
Boru	4	487
Boscobel	4	286
Boston	4	292
Bosworth	4	305
Botany Bay	4	312
	13	192
Bow Bells	4	3[illegible]8
Boycotting	4	372
	15	321
Boyne	4	377
the battle at	15	318
Breda, Declaration of	4	438
Brentford	4	468
Brets	4	472
Brian	4	487
Boroimhe	15	317
Bridewell	4	495
Bridgewater	4	531
Brigantes	4	536
Bristol	4	550
Britain, Ecclesiastical History of	4	552
Britannia	4	552
British Cabinet	5	518
	22	310
British Coalition Cabinet	22	310
British Columbia	5	340
history of	4	556
British Empire	4	558
	4	559
British Islands	4	561
British Isles	4	561
British Legion	4	562
British North America Act	5	340

United Kingdom and Dominions — cont'd	Vol.	Page
British Parliament, Home Rule Party in	14	335
British Post and postal service	22	426
Brixham	4	566
Broach	4	567
Brunanburgh	4	631
Brunswick-Hanover	4	637
Bryce Committee	4	649
Buccleuch	4	655
Buff	4	688
Bunhill-fields	5	24
Burntisland	5	63
Butter Act	5	473
Cabal	5	114
Caen	7	34
Caerphilly	6	15
Caledonia	5	190
Calgary	5	198
Cambria	5	247
Cambridge	5	248
mediæval history	14	247
modern history	14	247
Camelford	5	258
Campaign of Cromwell	13	234
Camperdown	13	196
Camp of Cole	7	242
Canada, Dominion of	5	289
Canada and the European War	5	352
	5	413
Canada, history of	5	295
	7	304
	14	290
Canadian Colonial Federation	11	82
Canadian tariff	5	456
Canadian War economics	5	355
Canadian West	5	337
Canal building in Canada	5	454
Canals, Canadian	5	458
Cape Saint Vincent	13	196
Capitulation of Montreal in 1760	23	74
Cap of maintenance	5	541
Caractacus	5	583
Carausius	5	584
Cardiff	5	600
Cardigan Castle	5	601
Carisbrook Castle	6	15
Carnatic	5	631
	13	196
Caroline, The	5	418
Carrickfergus	5	670
Cassivellaunus	5	713
Castlebar	6	9
Castle Dunie	6	15
Castle of Lindisfarne	6	15
Castle of Oxford	21	71
Catalans	13	194
Catholic Emancipation, 1829	13	235
Catholic Reaction	13	189
Cato street conspiracy	6	107
Causes of the American Revolution	27	327
Celtic Felle-breacan	22	143
Celtic Renaissance	6	186
	12	218
Chandos	6	287
Chartism	6	340
	13	198
Chippawa, battle of	6	562
Christianity established	13	233
Church in New France	5	309
City of the Violated Treaty	15	319
Claremont	7	34
Clarendon	7	36
constitutions of	7	36

United Kingdom and Dominions — cont'd	Vol.	Page
Clayton-Bulwer Treaty	7	75
Cleveland's message	13	200
Cock Lane ghost	7	185
Cockney	4	358
	7	187
College of Justice	13	230
Colonial commercial relations	5	452
Colonial self-government	2	571
Colonial Tariff	5	453
Commons	7	416
Commonwealth	2	582
	7	416
Company of One Hundred Associates	5	421
Compulsory military service, Canada	5	337
Compurgation	7	453
Confederation, Canada	5	329
	5	460
	5	465
Conquests, The	13	173
Conscription, Canada	5	337
Conservative	7	548
Constitutions of Clarendon	7	36
Continental system	7	588
Conventicles	8	130
Copenhagen	7	647
	13	196
Co-operative and Friendly Society movements	13	198
Corn Laws	5	453
	5	454
	7	705
Cotton District Relief Fund	8	76
Cotton famine	8	76
Count of the Saxon Shore	13	175
Coureur des bois	5	405
	8	113
Court Baron	8	123
Court of High Commission	8	124
Court of Honor	8	125
Court of Session	13	230
Covenanters	8	129
	13	107
Covent Garden	8	130
Coventry	8	130
Crantara	8	160
Creole	5	419
Crimean War	8	195
	13	198
Cromwell, campaign of	13	234
Crown lands	8	247
Crystal Palace	8	271
Cuchullain	15	326
Cunard Line of Steamers	5	455
	8	301
Cunedda Woledig	13	238
Dancing Chancellor	13	758
Danelagh	8	450
Danish invasions	13	175
Danish War of 1864	13	199
Darien scheme	8	475
Dark Days of Canada	8	478
Declaration of indulgence	8	564
Declaration of London	8	564
Declaratory Act	8	565
Defender of the Faith	8	586
	14	101
Deira	8	602
	13	175
Demesne lands	8	636
Democratic Federation	13	200
Deorham	13	175

United Kingdom and Dominions — cont'd	Vol.	Page
Descendants of the Nor' Wester French Voyageurs	5	424
Dettingen	13	194
Development of Canadian national institutions under French influence, 1472-1542	13	229
Devil's Ditch	4	135
	9	40
Devil's Parliament	9	40
Devil, The	9	38
Dick's coffee house	9	85
Dictum of Kenilworth	9	90
Dieu Et Mon Droit	9	105
Discovery and occupation by the French of the gulf and river of the Saint Lawrence	5	301
Disestablishment of the Irish church	13	199
	13	235
Disruption in the Church of Scotland	13	198
Doggett's coat and badge	9	230
Domain	8	636
	9	239
Domboc	9	240
Domesday book	9	261
	25	536
Dominion Grange of the Patrons of Husbandry	5	473
Donegal	9	257
Doomsday	9	261
Dorchester	9	263
Douglas Cause	9	278
Doukhobors	5	408
	5	410
	9	281
Dover Castle	6	14
Downing Street	9	288
Dublin	9	369
	9	370
Ducal coronet	8	250
Duck Lake	5	340
Dundonald incident	9	403
Dunmow, great and little	9	406
Dunnottar	9	407
Durham	9	425
Castle	6	15
Earl's coronet	8	250
East Angles	13	175
East Anglia	9	502
Eastern question	9	509
	13	199
East India Company	9	508
	13	192
East India Company of London	15	658
Edict of Marly	5	421
Edinburgh Castle	6	15
Eleanor Crosses	10	60
Elementary Education Act	13	199
Emancipation of slaves	13	198
England, history of	7	296
	14	290
England in the 17th century	14	281
England in the 19th century	14	290
England, including Wales	10	373
England of Walpole	14	229
England, Saxons in	14	238
English Chronicles	10	362
English Colonial expansion	13	191
English history of the 17th century	13	185

United Kingdom and Dominions — cont'd	Vol.	Page
English monarchy	14	278
English nationalism	19	749
English repression	13	234
Entente cordiale	10	399
	28	265
Equal electoral districts	13	198
Equal Rights party	5	527
Era of early discovery, Canada	5	299
Era of great production	13	200
Erie Canal	5	454
	5	455
Escuage	24	470
Establishment of English power	13	234
Ethendum, battle of	10	533
Ettrick	10	557
Eureka stockade	2	575
Factory Act (1833)	13	198
Fair Rosamond	10	716
Faversham	11	69
Federation in Canada	11	82
Feis Teomran	15	317
Fenian invasion of Canada	11	116
Fenians	11	116
	15	320
Feu-farm	13	230
Field of the Cloth of Gold	11	182
	14	101
Fifteen decisive battles of the world	11	188
Fifth Monarchy men	4	104
	11	200
Fingal	11	228
Firbolgs	11	230
	15	317
First permanent colonization, Canada	5	305
Fisheries question	11	286
Five Members	11	305
Five Mile Act	11	305
Five Nations	17	166
Flammock's Rebellion	11	332
Fleet	11	342
marriages	11	341
prison	11	342
street	11	342
Flodden	11	359
Foedera	11	411
Folcland	11	422
Folkland	11	422
Folk-moot	11	417
Fontenoy	11	428
	13	194
Fort Duquesne	11	499
	13	195
Fort Edward	11	499
Fort Erie	11	500
Fort Garry	5	340
Fotheringhay Castle	11	531
Fountains Abbey	11	548
Free trade	12	44
	13	199
	22	672
French Canadian	5	402
French Shore	13	195
French Wars of the 18th century	13	198
Frogmore	12	118
Froissart's Chronicles	3	572
	12	120
Gael	12	218
Gaelic League	12	218
Galloway	12	250
Ghent, Treaty of	12	632
Gibraltar of America	12	644
Glasgow	12	682
Glastonbury	12	712

United Kingdom and Dominions — cont'd	Vol.	Page
Glencoe	12	714
Gog and Magog	13	7
Golden Days of Alexander III	13	229
Gotham	13	75
Gowrie Conspiracy	13	99
Graitney	13	463
Grand remonstrance	13	128
Grand Trunk Pacific Railway	5	458
	13	129
Great Britain	13	170
	13	174
and the Boers in South Africa	29	535
and the World War	13	342
army	13	328
Church of England	13	296
civil service	13	225
colonisation	7	302
commerce, 18th century	13	248
commerce, volume of	13	250
conquests	13	173
consequences of sea power	13	173
co-operative movement	13	287
crown and cabinet	13	211
diplomatic relations with the United States	13	348
economic bases	13	172
factory legislation	13	289
foreign policy in Africa and America	13	336
foreign policy in Europe	13	332
foreign policy in India	13	333
Free Trade movement	13	338
French wars of the 18th century	13	198
geographical environment	13	170
history of the 17th century	13	185
history of the 18th century	13	191
history of the 19th century	13	197
in Egypt	29	535
in Western Asia	29	538
insularity	13	170
internal natural divisions	13	172
Irish history	13	233
Judaism	13	303
Labor movement in politics	13	285
Land Law	13	261
mediæval England	13	177
momentum, geographical	13	173
navigation acts	13	253
navy	13	322
nonconformity	13	297
Parliament	13	205
Parliament Act, 1911	13	210
political parties	13	201
	13	203
railways	13	259
reformation in	13	181
revolution, industrial	13	279
Roman Catholics	13	301
Scottish history	13	228
shipping	13	256
tariff movement	13	340

United Kingdom and Dominions — cont'd	Vol.	Page
thought and literature in the 19th century	13	317
trade unionism	13	281
Wales	13	236
Great Britain's fight with France for North America	5	311
Great Charter	8	115
	14	278
of Liberties	13	122
Great contract	13	186
Great land of the Southern Cross	2	570
Great plague	22	142
Great rebellion	13	186
Great seal	13	360
Gretna Green	11	342
	13	468
Gunpowder plot	13	556
Guy Fawkes' Day	16	38
Haddon Hall	13	609
Hadrian's wall	13	611
Hakluyt Society	13	629
	14	237
Halifax	13	639
Commission	13	639
Halifax Fisheries Commissions	5	426
Halifax platform	13	639
Hanover, Treaty of	13	683
Hay Treaty bond	5	361
Heights of Abraham	13	195
Heptarchy	14	110
Hessians in the Revolution	14	159
Hibernians, The Ancient Order of	14	165
Highlander's dress, original	22	143
Highlanders, Scotch, in the United States	14	185
History of the 18th century, British	13	190
History of the 19th century, British	13	197
Hohenlinden	13	196
	14	312
Holy Roman Empire	13	194
	14	327
Home Government Association of Ireland	14	335
Home Rule	14	334
	19	755
	25	41
	27	224
Home Rule Split	15	321
Home Rule, the earliest step in the movement toward	14	335
House of Peers	21	470
Hudson's Bay Company	5	337
	14	472
Hundred associates	17	114
Hundred Years' War	13	180
	14	498
Ich Dien	14	634
Immigration to Canada	5	406
	5	409
Imperial Federation	14	722
Imposts, British	13	197
Inch Cape	8	479
Income tax, British	13	197
Insularity of Britain	13	170
Intercolonial railways	5	458
Invasion of Agricola	13	228
Inventions, British	13	197
Invincibles	15	287
Ireland	11	198
	15	303

United Kingdom and Dominions — cont'd	Vol.	Page
Ireland	15	317
Irish Agricultural Organization	22	259
Irish history	13	233
Irish Home Rule	11	466
Irish Home Rule Bill	13	199
Irish Home Rule League	14	335
Irish Land Act	13	199
Irish Land Act of 1881	13	199
Irish Land laws	15	331
Irish Land Purchase Bill	13	199
Irish Parliament	15	319
Irish problem	27	224
Irish Rebellion	15	351
Irish Republic	27	224
Irish Revolutionary Brotherhood	11	116
Irish schools and schoolmen of the Middle Ages	15	355
Jacobean Period	24	614
Jacobite Risings	13	230
Jamaica, history of	7	301
	15	601
Jameson's raid	13	200
	15	609
Jingo	16	147
John Bull	16	163
John O'Groat's House	16	165
Johnson-Clarendon Treaty	5	425
Jutes	11	560
	13	175
	16	268
Keewatin	5	340
Kent, Fair Maid of	16	363
Kett's Rebellion	16	384
Key of England	6	14
Killala Bay	15	319
Klondike, The	16	473
Lady Day	16	644
Lake-to-Sea Commission	16	661
Lancaster, House of	16	687
Lancastrian constitutionalism	13	180
Land Bill	13	199
Land League	15	320
	16	698
fund	11	466
Irish	4	372
Land Purchase Acts	13	235
Leicester Square	17	267
Leomoys	17	781
Leonais	17	781
Levellers	15	319
	17	327
Lia-Fail	17	344
Licensing Act	13	199
Limerick	17	441
defense of	15	318
Lindisfarne	13	176
Little Parliament	8	224
Local Government Bill	13	199
Local Government Board	13	199
London	17	630
London Company	17	633
London —		
England, Bank of	17	622
Mansion House	17	622
Royal Exchange	17	622
Tower	17	622
Treaty of (1915)	17	632
Louisburg	13	194
	13	195
Lower Canada insurrection	6	130
Loyalists in Canada	17	707
Luck of Edenhall	9	580
Luddites	17	720
Lyonesse	17	781

United Kingdom and Dominions — cont'd	Vol.	Page
Lyonnesse	17	781
Magna Charta	8	115
	13	178
	18	122
Maiden	18	139
Maiden of Norway	4	623
Maiden Queen	18	139
Malignants	18	166
Malplaquet	13	194
	18	170
Manhood suffrage	13	198
Manitoba Act	5	340
Manor	18	232
Marshalsea	18	329
Meal-tub plot	18	477
Mediæval England	13	177
Mercia	13	175
	18	666
Metis	5	424
Middle Angles	13	175
Merlin	18	676
Merry England	18	682
Methuen Treaty	18	727
Milesians	15	317
	19	57
Miser of Lewes	19	225
Mogul Empire	13	192
	19	291
Mohocks, The	19	309
Mons Grampius	1	241
Montreal	19	414
Mount Royal	19	414
Moss Troopers	19	508
Mount Badon	13	175
Municipal Reform Acts, English	19	589
Myth Teutonicus	14	237
National debt, British	19	730
National league	15	320
New Brunswick	5	325
	20	115
Newfoundland	20	268
New France	20	122
	20	462
New France, Company of	20	122
New South Wales	2	571
	20	161
New Zealand	20	273
Nonesuch Ketch	5	423
Noll	20	392
Nonjurors	20	396
Norman Conquest	20	404
Northeast boundary dispute	20	428
Northwest boundary dispute	20	430
Northwest boundary question, Canada	5	359
Northwest Company	5	338
	5	423
	5	424
Northwest Passage	5	423
	22	291
Northwest territories	20	431
Nouvelle France	20	462
Nova Scotia	5	321
	20	462
Offa's Dyke	13	175
	20	596
Ogygia	15	317
Oldest town in Britain	24	121
Ollay Fola	15	317
Opium traffic	20	712
Orangemen	20	728
Order of the Garter	9	704
Orders in Council	5	453
Orders, royal	20	767
Oregon Treaty	5	339
Osborne House	21	17
Ottawa (Canada)	21	46

United Kingdom and Dominions — cont'd	Vol.	Page
Oudenard	13	194
	21	51
Oxford, England	21	71
Pageants, English	21	98
Pale, The	15	318
	21	138
Parliament, England's Glory	13	185
Parliamentary Elections Act of 1868	8	21
Parliamentary Emancipation Act	4	564
Parnellism and crime	15	321
Participation of Canada in the Great War	5	352
	5	413
Partition treaties	21	354
Passamaquoddy question	5	359
Paston letters	21	374
Payment of members of Parliament	13	198
Peace of Aix-la-Chapelle	13	194
Peace of Utrecht	13	194
Peasant revolt of 1381	13	180
Peep-o'-Day Boys	21	469
Pennamite wars	21	516
Pepys' Diary	21	568
Perak	21	568
Perth	21	641
Peterborough	13	194
	21	662
Petition of Right	21	673
Phipps' attack on Quebec	17	166
Picts	13	175
	24	433
Pilgrimage of Grace	22	84
Pindarees	22	96
Pindaris	22	96
Pinharees	22	96
Pit and gallows	22	119
Pitt's commercial treaty with the United States	5	453
Plague, History of	22	141
Plantagenet	22	159
Plantations of James I.	13	234
Plassey	13	195
	22	224
Plotter, The	11	124
Police, British	22	301
Pondicherry	13	195
	22	349
Pontefract Castle	6	15
	22	350
Poor Law Amendment Act of 1834	13	198
Poverty in England	13	234
Prestonpans	22	561
Pride's Purge	22	571
Primrose Day	22	579
Prince Edward Island	13	195
	22	582
Prince of Wales' Coronet	8	250
Profit-sharing movement, British	13	200
Protection in the United Kingdom	22	672
Protector	22	675
Provisions of Oxford	13	179
	13	180
Puritanism	13	189
	23	29
Quebec	23	75
Quebec, Siege of	23	76
Queensberry plot	23	81
Queensland	2	577
	23	82
Ragman Rolls	23	133
Raid of Ruthven	1	129
	23	135
Railways, Canadian	5	458

United Kingdom and Dominions — cont'd	Vol.	Page
Ramillies	13	194
	23	203
Rebaccaites	23	264
Rebekah's Daughters	23	264
Rebellion of April, 1916	25	41
Recent world politics in the British Empire	29	548
Reciprocity agreement	5	457
Reciprocity Treaty	5	425
	5	426
Record Commission	14	237
Redistribution Bill of 1885	13	199
Red line map	23	282
Red River Valley	5	339
Reformation	23	301
Reformation (Ireland)	13	234
Reformation to the Revolution, 1542–1689	13	230
Reform Bill of 1884	13	199
Reform bills	23	301
Regina	5	340
	23	322
Religious Opinions' Relief Bill	16	107
Remedial legislation, British	13	235
Renaissance in England	23	370
Repeal movement	23	384
Repeal of Navigation Acts, Canada	5	454
Restoration, The	23	421
Revolt of 1916 (Dublin)	9	371
Revolutionary War	13	195
Revolution of 1399	13	180
Revolution of 1689	13	191
	13	230
Ribbonism	23	482
Rideau Canal	5	454
	5	477
Riel's Rebellion	23	514
Rise of the fur trade, Canada	5	303
Roman Catholic in Canada	5	417
Rossbach	13	195
	23	706
Rorkes Drift	23	688
Royal Family, The	23	735
Royal George	23	735
Royal Oak	4	286
Royal University (1879)	13	235
Rump Parliament	23	773
Rupert's Land	5	337
	23	776
Russo-Turkish War and Britain	13	199
Ryehouse plot	3	53
	24	73
Saint Edward's Crown	8	249
Saint James Coffee-House	24	132
Saint James' Palace	24	132
Saint Patrick's Day	15	321
Sale and purchase of land bill	15	321
Salisbury circular	24	185
Sandford and Merton, history of	24	255
Sans Terre	16	156
Sarum, Old	24	308
Saskatchewan	5	340
	24	309
Saxon	24	341
Chronicle	13	175
Saxons	11	560
Scilly Islands	24	421
Scotland	13	193
	24	433
Scots	13	175

United Kingdom and Dominions — cont'd	Vol.	Page
Scottish history	13	228
Scrap of Paper	13	68
Scutage	24	470
Seigniorial tenure, Canada	5	420
Self-denying ordinance	24	542
Separatist dissent	13	190
Seringapatam	13	196
	24	597
Settlement of the Canadian West	5	341
Seven Years' War in Europe	13	192
	24	611
Sherwood Forest	24	707
Ship-money	24	723
Shire	24	736
Silures	13	174
	25	10
Sinn Feiners	4	10
	25	40
	27	224
Slavery	14	290
	25	88
Slave trade	24	502
Smithfield	25	130
Smuggling	5	453
Social Reform movement	25	166
Socialism in Great Britain	13	200
	25	197
Society of United Irishmen	15	319
Solemn League and Covenant	25	239
Soulanges Canal	21	458
	5	477
South Australia	2	579
South Saxons	13	175
South Sea Company	25	308
South-West Africa protectorate	25	308
Sports, The Book of	25	434
Stamford Bridge	13	176
State Crown of India	8	249
Sterling	25	629
Stone of Destiny	17	344
Straits Settlements	13	192
	25	709
Supreme Court of Judicature Act	13	199
Tariffs and expansion of trade, Canada	5	455
Tariffs and trade regulation, Canada	5	452
Tasmania	2	576
	26	280
Thirty Years' Religious War in Upper Canada	5	420
Thirty Years' War	26	565
Thistlewood conspiracy	6	107
Tories	17	707
	26	715
Trafalgar	26	764
Train bands	26	765
Treaty of Amiens	13	196
Treaty of Benares	13	751
Treaty of Troyes	14	100
Treaty of Versailles	13	195
Tierceiri in Carnarvonshire	13	238
Triennial Parliament of Tara	15	317
Trinidad	13	697
	27	66
Tudor	27	181
Ulster Volunteers	15	321
	15	351
Unionists	15	321

United Kingdom and Dominions — cont'd	Vol.	Page
United Irishmen	27	303
Union of Scottish and English Parliaments, 1707	13	230
Union of Wales with England	14	102
Utrecht Treaty	4	181
	13	324
Van Diemen's Land	2	570
	26	280
Venezuelan affair	13	200
Venezuelan boundary dispute	27	735
Victoria	2	574
	28	72
Victory of Wandewash	13	195
Vinegar Hill	15	319
	28	102
Viscount's Coronet	8	250
Vote by ballot	13	198
Wales	13	236
	28	225
Wälsch	11	560
War Cabinet	22	310
War of the Austrian Succession	13	191
Wars of the Roses	11	190
	13	181
	19	749
War with Spain (1739)	13	191
Washington Treaty of	28	796
Wat Tyler's Rebellion	22	141
Webster-Ashburton Treaty, The	29	152
Western Australia	2	578
Westminster	29	224
Westminster Assembly	13	189
	29	225
West Wales	13	175
Wexford	29	229
Whiteboys	15	319
	29	269
Whitehall	29	276
White hats	29	271
Widow, The	18	139
Windsor Castle	6	15
	29	385
Witenagemot	11	417
	29	432
Woolsack	29	507
Yorkists	11	190
Young Ireland	15	320
Young Pretender	29	664
Zululand	13	199
	29	738

France

	Vol.	Page
Abbaye	1	11
Absolute Monarchy, The	11	619
Agadir crisis	1	229
	5	246
Agincourt	1	237
Agnadello	1	238
Agosta	1	239
Aigues-mortes	1	272
Aisne	1	290
Aix	1	292
Alais, Peace of	1	308
Albi	1	337
Albigensian cathari	1	337
Alesia	1	359
Algeciras Conference	1	394
	11	619
Alsace-Lorraine	1	442
loss of	11	739
Amiens	1	574
Amiens, Peace of	19	698
Anagni, Attack of	20	389
Ancients, Council of	1	654

France — cont'd	Vol.	Page
Andorra	1	668
Anglo-French agreement	24	54
Anglo-French entente	5	246
Anti-royalist party	16	245
Armagnac faction	11	586
Armagnacs, The	2	265
Armorica	2	278
Arras	2	327
Assemblée Nationale	11	608
Assembly, National	2	420
Assignats	2	422
Ateliers nationaux	2	490
Aumont	2	553
Austerlitz	2	560
	19	698
Azincourt	1	237
Badinguet	3	35
Bagaudæ	3	38
Bagaudi	3	38
Barbou	3	238
Barries, battle of	3	279
Basoche	3	369
Bastard of Orleans	3	321
Bastille	3	323
Battle of the Nations	19	700
Battle of the Spurs	3	347
Bayonne	3	367
Bayonne Conference	3	368
Bayonne Decree	3	368
Bayonne, Treaty of	3	368
	19	699
Bazoche	3	369
Bellevue	3	488
Berlin Decree	3	565
	19	699
Berri	3	578
Berry	3	578
Besançon	3	584
Bethune	3	593
Bicetre	3	679
Bléré	4	80
Blesum	4	103
Blois	4	102
Boar of Ardennes	4	326
Bois de Boulogne	4	174
Bios de Vincennes	4	174
Bonaparte Pretenders	4	207
Bondy, Forest of	4	212
Bonnet-rouge	4	229
Bordeaux	4	264
declaration	11	739
Bouillon	4	326
Boulogne-Sur-Mer	4	328
Bourbon-Lancy	4	348
Bourbonnais	4	348
Bourges	4	350
Brennus	4	466
Brest	4	470
Bretagne	4	565
Bretigny	4	471
Brie	4	533
Brienne	4	534
Brienne-le-Château	4	534
Brittany	4	565
Brumaire	4	630
Burgundy	5	42
Cadets De La Croix	5	133
Caen	5	137
Cahors	5	146
Calais	5	154
Calottists	5	234
Cambrai	5	247
Cambray	5	247
Camisards	5	133
	5	266
Capet	5	552
Capetian House	5	552
	11	585
Carlovingian monarchs	5	552
Carlovingians	5	621
Castellum Novum Arianorum	6	5
Castelnaudary	6	5
Castillon	6	6
Castle of Argues	6	13
Castle of Concy	6	13
Castle Dieppe	6	13
Castle of Gaillon	6	13
Castle of Mont Saint Michel	6	14
Castle of Vincennes	6	13
Causes of the inferiority of the French merchant fleet	11	722
Cent Jours, Les	6	199
Champ de Mai	6	270
Champ de Mars	6	270
Chateau and Tour de Montlhéry	6	14
Chateau d'Anet	6	14
Chateau de Chantilly	6	14
Chateau de Compiègne	6	14
Chateau de la Ferté	6	14
Chateau de la Madeleine	6	14
Chateau de Maintenon	6	14
Chateau de Monchy	6	14
Chateau de Pierrefonds	6	14
Chateau de Rambouillet	6	14
Chateau de Versailles	6	14
Chateau de Villers Cotterets	6	14
Chateau Gaillard	6	13
Chateau of Fontainebleau	6	14
Chateau Thierry	6	14
	6	349
Chauvinism	6	368
Children's Crusade, The	6	488
Chilperic	6	512
Chouans	6	594
Citizen Egalité	4	347
Citizen King, The	6	705
Clermont-Ferrand	7	91
Clemont-Tonnerre	7	91
Cluny, Hôtel de	7	139
Code Michau	11	619
Code of civil laws	19	698
Code of Napoleon	7	195
	11	596
	11	601
Colons	11	616
Committee of Public Safety	7	406
	11	593
Committee of Safety	7	406
	23	575
Commoners	11	617
Commune de Paris	7	417
	11	608
Compiègne	7	430
	16	149
Conciergerie, La	7	462
Concordat of Fontainebleau	7	464
	11	605
Conquête de Constantinople	14	218
Constituent Assembly	2	420
	7	563
Constitution of the year III	11	598
	11	600
Consulate	7	581
Continental blockade	19	699
Continental system	7	588
Council of Five Hundred	4	206
	9	144
Court of Love	8	125
Crimean War	8	195
Danton	14	285
Dauphin	8	495
	11	586
Dauphiné	8	495
Day of sections	8	521
Diamond necklace	9	68
Dinant	9	124
Directory, The	9	144
	14	286
	19	697
Domremy-La-Pucelle	9	249
Do-Nothing Kings	10	713
Dreyfus affair	9	334
	16	100
Edict of Nantes	9	584
	11	589
	14	103
Edict of Poitiers	14	102
Elysée, Palais de l'	10	269
Emigrés	10	293
Empire, The	11	602
Enfants De Dieu	10	333
Entente cordiale	10	399
	11	607
Fainéants	10	713
Fashoda crisis	11	51
	27	175
February Revolution	11	77
Fête Nationale	11	157
Feudalism	11	696
Feudal system	11	617
Field of the Cloth of Gold	11	182
Five Hundred, Council of	11	305
Flagitiosum scelus	20	389
Floreal	11	362
Fontainebleau	11	426
Fontainebleau, decrees	11	604
Fontenay-Le-Comte	11	427
France	11	773
	14	285
and the World War	11	739
Church and State	11	631
separation of	11	634
civilization	11	695
colonies, general history	11	736
diplomatic relations of the United States with	11	743
empire	11	602
literature from 11th to 19th century	11	651
literature, 19th century and contemporary period	11	657
Renaissance	11	653
socialism	11	624
during the World War	11	627
France and the First National Defense Loan	19	730
France, history of	7	303
	11	575
Franco-German War	19	702
Franco-Prussian War	11	746
	20	353
Frank Monarchy	11	616
French civilization	11	695
French colonies	11	736
	11	738
French crowns and coronets	8	250
French Empire	11	604
French history, B. C. 58 to A. D. 1796	11	575
French history since 1815	11	606
French imperialism in Africa	29	536
French merchant fleet	11	722
French monarchy	14	277
French nationalism	14	237
French Revolution	12	73
	14	284
	15	450

France — cont'd	Vol.	Page
French revolutionary wars	19	761
French wars of the 18th century, The	13	193
French West Indies	12	84
Friedland, battle of	12	104
	19	699
Frimaire	12	110
Fronde	12	121
Fructidor	12	128
Gallia	11	695
	12	340
Garde Nationale	12	281
Gascons	11	586
Gaul	11	576
	12	340
Germinal	12	622
Girondists	11	597
	12	667
	14	285
	23	574
Goddess of Reason	12	744
Godiva	12	746
Goliardæ	13	39
	27	640
Grosse Tour de César	6	13
Guillotine	13	538
Guise Family	13	541
Hanover, Treaty of	13	683
Hébertists	14	57
	23	575
History, French, from Revolution to establishment of Empire, 1796-1804	11	595
Holy Alliance	11	607
	14	325
Holy League	14	102
Huguenots	14	282
	14	482
	23	496
Hundred Days	14	498
Hundred Years' War	14	498
Invasion of the Barbarians	11	577
Iron Mask, Man with the	15	378
Jacobins	15	590
Jacquerie	15	594
Jeunesse Dorée, La	16	48
Joan of Arc	16	149
July, Column of	16	244
July, Revolution of	14	290
	16	245
Kiersy, Edict of	16	408
L'Américain	11	550
La Montagne	6	240
Landit	16	702
La Terreur Blanche	11	606
Latin Quarter	17	92
League of the Public Good	11	587
League of the Public Weal	17	176
Legion of Honor	17	244
	19	698
Legitimists, The	17	256
Lendit	16	702
Liberty, Equality, Fraternity	17	348
Lites	11	616
Little Corporal	17	520
London, Treaty of (1915)	17	632
Lorraine	17	664
10th century	26	437
Lotharingia	17	664
Louisiana Treaty	11	744
	17	683
Louvre, The	17	693
Lunéville, Treaty of	17	740
	19	697

France — cont'd	Vol.	Page
Maid of Orleans	18	189
Malmaison	18	168
Mandat	18	205
Marchiali	15	378
Marnian Epoch	18	306
Marseillaise, La	19	321
Massacre of Saint Bartholomew	5	558
	11	588
Mattioli	15	378
Merovingians	18	678
Middle Ages	11	582
	19	39
Military Revival, First	19	756
Mise of Amiens	19	225
Montagnards	11	597
	19	380
Mont Saint Michel	19	379
Most favored nation	11	745
Moulines, Ordinance of	17	343
Nancy	19	687
Nantes	19	689
Nantes, Edict of	9	584
	11	589
	14	108
	14	281
	14	482
	19	689
Napoleon abdicated	19	700
crowned King of Italy	19	698
Napoleonic Period	14	286
	19	699
Napoleon's Continental System	14	286
Napoleon's tomb	19	703
National Convention	19	728
National debt, France	19	730
National Library (Bibliothèque Nationale) of France	19	739
Navarre, kingdom of	4	347
Nobility	11	619
	20	384
Nobles	11	617
Notables, Assembly of	20	457
Noyades	20	479
Oc, Land of	20	554
Ordonnances de Juillet	11	607
Organizer of Victory	11	598
Pacification, Edict of	17	343
Palais Royal	21	134
Pan-Germanism	21	225
Parisii	11	576
Parlement	21	337
Partition treaties	21	354
Pastorels	21	377
Peace of Aix-la-Chapelle	11	592
Peace of Beaulieu	14	102
Peace of Breda, The	17	675
Peace of Nimeguen	11	591
Peace of Paris	4	326
Peace of Utrecht, The	17	675
Peace of Vervins	14	108
Peninsular War	14	286
	19	699
	21	710
Peoples, The Cause of	14	285
Périgueux	21	586
Perpignan	21	604
Plebiscitary Republic	11	609
Pluviose	22	261
Poictou	22	285
Poitou	22	285
Police, French	22	301
Provence	22	704
Public Safety, Committee of	7	406
	14	285
	23	575
Pyramids, battle of	19	697

France — cont'd	Vol.	Page
Pyrenees, Peace of	23	42
Radot	3	35
Rambouillet Decree	27	371
Reflections on the Revolution in France	23	300
Reign of Terror	11	597
	23	332
Renaissance in France	23	370
Republics, history of	23	403
Restoration	11	596
Revolutionary Calendar	23	449
Revolutionary Tribunal	23	449
Revolution in Paris	19	702
Rheims (Reims)	23	456
Rising of the Commune	7	417
	11	608
Road building, French	23	558
Roman Continuity	11	698
Roman Law in France	11	619
under Old Monarchy	11	618
Roman Unity	11	697
Roman question	11	608
Romorantin, Edict of	17	343
Royal decrees	11	619
Saint Cloud	24	126
Saint Helena	19	701
	24	130
Saint Nazaire	24	155
Saint Quentin	24	167
Salic Law	11	585
	24	183
San Ildefonso, Treaties of	24	240
Saxe-Weimar	24	340
Second Crusade	11	583
Secret Treaty of Saint Ildefonse	17	683
Seniorat	11	616
Seniores	11	617
Senones	11	576
Septembrists	24	574
Serfdom	11	619
Serfs	11	617
	24	591
States-General	25	527
Strassburg	25	711
Temple of Reason	6	240
Tenth Thermidor, The	11	594
Terror, Policy of	14	286
Reign of	26	449
The	23	575
The White	26	449
Thibaut	26	551
Thionville	26	553
Third Estate	14	285
	26	620
Third Republic	11	614
	11	736
Tiers-Etat	26	620
Tilsit, Peace of	19	699
Tolosa	26	718
Transition between Frank and Feudal Periods	11	616
Treaty of Aix-la-Chapelle	11	736
Treaty of Campo Formio	4	353
Treaty of Château-Cambray	4	326
Treaty of Godebeu	11	736
Treaty of Lunéville	11	601
Treaty of Nimeguen	17	675
Treaty of Paris	11	592
	11	736
Treaty of Utrecht	11	736
Treaty of Versailles	11	736
Trocadéro	27	80
Tuileries, The	11	597
	27	132
Ultra-Royalists	11	606
University of France	11	605
Valois, House of	27	652

France — cont'd	Vol.	Page
Vassal	11	617
Vassalage	11	617
Vasseurs	11	617
Vendée, La	27	725
Vendémiaire	27	726
Versailles	28	35
War of Liberation	19	756
Waterloo	19	700
	29	71
Westphalia, Peace of	11	739
	29	227
White Terror	11	606

Germany

Aix-la-Chapelle	1	292
Alamanni	1	308
Alemanni	1	308
Alsace-Lorraine	1	442
Aremberg	2	191
Arenberg	2	191
Baden	3	32
Battle of Piacenza	25	785
Bavaria	3	355
Berlin	3	559
Bagdad Railroad	3	39
	29	537
Congress	3	565
Biberach	3	612
Bingen	3	714
Bismarckian Tariff Bill	19	756
Blenheim	4	77
Blindheim	4	77
Blood and Iron	4	110
Blutbann	11	96
Bosnia and Herzegovina	3	565
Brandenburg	4	411
Braunsberg	4	421
Breisgau	4	546
Bremen	4	463
Brisgau	4	546
Bromberg	4	575
Brunswick-Hanover	4	637
Brunswick, House of	4	637
Burgrafsburg	6	12
Cassel	5	709
Castle of Coburg	6	12
Fürstenburg	6	11
Gutenfels	6	10
Heimburg	6	11
Klopp	6	11
Lahneck	6	10
Marienberg	6	12
Marksburg	6	10
Nollich	6	11
Stahleck	6	11
Schönburg	6	10
Catti	6	109
Chatti	6	109
Court of Love	8	125
Darmstadt, Germany	8	479
Drachenfels	6	10
	9	290
Dresden	9	326
Ehrenbreitstein	6	10
	10	24
Eisenach	10	41
Electoral Hesse	14	157
Fehmic Courts	11	96
Feudal system	11	159
First Post	22	425
Flagellants	4	33
	11	321
Franco-Prussian War	12	1
	20	361
Free cities	12	42
Freigraf	11	96
Freischoffen	11	96
German colonial enterprise in Africa	29	534
German crowns and coronets	8	251

Germany — cont'd	Vol.	Page
German culture	12	675
German Empire	14	291
German loans	19	730
German Monarchy	14	278
German Naval Act	19	757
German political dualism	19	750
Germania (Tacitus)	12	502
Germanic Confederation	11	83
Germany	12	505
	14	234
and the World War	12	611
diplomatic relations with the United States	12	617
economic organization	12	577
emperors and kings of	12	621
history of	7	304
	14	290
political history to 1871	12	510
political history to 1918	12	517
religion, history of	12	544
Great Peasants' War, The	21	459
Guelph	4	637
	13	523
Hamburg	13	653
Hanover, Treaty of	13	683
Heidelberg	6	11
	14	69
Hesse	14	156
Hesse-Cassel	14	157
Hesse-Homburg	14	157
Hessia	14	156
Hessians in the Revolution, The	14	159
Hohenstaufen House	14	278
Hohenzollern politics	14	283
Hohenzollerns	14	313
Hoh-Königsburg	6	12
Imperial Constitution, German	11	82
Junkers	16	251
Kassel	5	709
Kiau-Chau Concession	24	657
Kulturkampf	16	554
	29	333
Landgrave	16	701
Lorraine	17	664
Lotharingia	17	664
Middle Europe	19	39
Miles Gloriosus	19	57
Minden (Prussia)	19	148
Mittel-Europa	19	39
Montenegro	3	565
	19	399
Mouse Tower	6	11
National debt, German	19	730
National history, State	14	234
Ney-Schwanstein	6	11
North German Confederation	14	291
	20	424
North German Union	11	82
Oberstuhlherr	11	96
Palace of San-Souci	6	13
Palatinate, The	21	136
Parties and party politics, German	12	522
Peasants' War	21	459
Pfalz, The	6	10
	21	136
Pillnitz	22	87
Plague, History of	22	141
Pomerania	22	340
Rastadt	23	223
Rastatt	23	223
Reichenberg	6	10

Germany — cont'd	Vol.	Page
Reichstag, The	11	82
	23	329
Renaissance in Germany	23	369
Revolution in Germany, The	28	467
Revolution of 1848	20	353
Rheinfels	6	10
Rhine	23	462
Confederation of	14	287
Rhine, province of	23	463
Royal Palace	6	12
Saxon	24	341
Saxony	24	342
Schloss Berlin	6	12
Schmalkaldic league	1	242
	24	381
Schwanstein	6	11
Seven Years' War	4	638
	24	611
Spartacides	25	363
	28	467
Spicheren	24	76
Stolp	25	671
Stolpe	25	671
Stolzenfels	6	10
Stuhlherr	11	96
Thirty Years' War	11	120
	26	567
Torgau, Germany	26	702
Trifels	6	12
Tugendbund	27	132
Ulm	27	263
Vienna, Congress of	14	157
	28	81
Wartburg, war of	28	768
Wesel	29	195
Westphalia	29	226
Zahringen	29	682
Zollverein	29	723

Austria-Hungary

Academic Legion	1	61
Agram	1	239
Ausgleich of 1867, The	2	559
	2	626
Austria	14	282
history of	2	627
	14	291
Austria-Hungary, diplomatic relations with the United States	2	635
loans	19	730
Austrian National Hymn	19	732
Austria under the House of Bamberg	2	628
Austria under the House of Hapsburg	2	629
Austria under the House of Hapsburg-Lorraine	2	631
Balkan League	3	82
Balvany	3	124
Bathory	3	337
Battori	3	337
Bela	3	452
Bethlen-Gabor	3	592
Bosnia and Herzegovina	3	565
Bregenz	4	461
Brigantium	4	462
Brünn	4	634
Brux	4	646
Budapest	4	671
Bulla Aurea of the Empire	13	26
Carniola	5	640
Confederation of the Rhine	2	633
	7	498
Czernowitz	8	384
Dalmatia	8	420
Feldkirch	11	98

Austria-Hungary—cont'd	Vol.	Page
Fiume	11	303
Galicia	12	236
Golden Bull	13	25
Gorizia	13	67
Görz	13	67
Hapsburgs	11	603
	13	686
Herzegovina	3	565
	4	288
Hierosolymitanus	13	25
Holy Roman Empire	12	515
	14	327
Hungary, history of	14	506
and the World War	14	508
Kalman	16	513
Koloman, Kolomanus	16	513
Kossta Affair	16	534
Magyars	18	132
	28	631
National debt, Austria-Hungary	19	730
Pan-Slavism	21	248
	24	54
Plagues, history of	22	142
Peace of Dresden	25	785
Przemysl	22	725
Revolt in Hungary	28	468
Styria	25	760
Tenth century	26	437
Thirty Years' War	26	566
Tirol	27	247
Tyrol	27	247
Transylvania	27	15
Treaty of Reichenbach	2	632
Treaty of Sistova	2	632
Vienna	28	79

Italy

Italy	Vol.	Page
Adriatic question	15	553
Æqui	1	178
Agnadello	1	238
Alba	1	324
Alboin	1	339
Aldobrandini	1	355
Alessandria, Armistice of	1	359
Algeciras Conference	1	394
	27	71
Ambrosian Library	1	474
Ambrosian Republic	15	444
Anagni	1	605
Baglioni	3	42
Balkan League	3	82
Balkan League's Attack on Turkey	15	553
Barberini	3	236
Bassano	3	317
Bavaria, House of	15	442
Beneventum, Duchy of	15	442
Bianchi and Neri	3	610
Bobbio	4	138
Bologna	4	194
Bononia	4	194
Borghese	4	269
Bormio	4	276
Bourbon Neapolitan Dynasty	15	450
Bravi	4	422
Brescia	4	468
Bride of the Sea	4	495
Brutium	5	154
Calabria	5	153
Cambria, League of	15	448
Cateau Cambresis	15	449
Camorra	5	268
Campagna Di Roma	5	273
Campania	5	274
Campoformio	5	285
	15	451
Candia	5	494
	15	449

Italy — cont'd	Vol.	Page
Canossa	5	526
Capri	5	570
Capulets and Montagues	5	575
Caraffa	5	583
Carbonari	5	593
	15	453
Cassino	5	712
Castellamare	6	3
Chiaja	6	435
Chigi	6	459
Cimbrian Panic	6	677
Cisalpine Republic	6	697
	15	451
Cispadana	6	698
	15	451
City of a Hundred Towers	6	716
Colonial possessions of Italy in Africa	15	469
Colonna	7	299
Commonalty, The	15	443
Communes	15	443
Constance, Council of	7	552
	15	446
Corsini Family	8	24
Council of Ten	8	98
Crema, Italy	8	177
Cremona, Italy	8	178
Crotona	8	244
Cumæ	8	297
Cunimond	1	339
Custozza	8	338
	15	553
Cyprus	8	369
	15	449
Doria	9	265
Dual Monarchy	15	553
Emigration	15	547
Eritrea	1	60
	10	479
Este	10	520
Etruria	10	556
Kingdom of	10	557
	15	451
Etruscan Confederation	22	116
Falisci	10	729
Farnese	11	42
Ferrara	11	135
Florence	11	362
	14	222
Forli	11	489
Four Doctors of Bologna	5	6
Franconia, House of	15	442
French Revolution	15	450
Friuli	12	114
Garibaldi hymn	12	298
Gavinana, battle of	15	448
Ghibellines	12	633
	15	442
	27	215
Golden Book of Venice	13	25
Gonzaga Family	13	48
Grimaldi	13	474
Guelfs	15	442
Guelphs	13	523
	27	215
Heel of Italy	5	154
Helmichis	1	339
Historic Age	15	439
History from 1815 to 1907	15	452
History from 1907 to 1919	15	461
History of the City of Rome subsequent to 476 A.D.	23	671
History, modern, 1492-1815	15	447
Holy Alliance	14	32[illegible]
	15	453

Italy — cont'd	Vol.	Page
Holy League	15	448
Insubres	15	175
Iron Crown	8	249
	15	368
Irredentist Agitation	15	552
Irredentists	15	392
Italia Irredenta	3	343
	13	67
	19	7[illegible]5
Italian Imperialism in Africa	29	537
Italian loans	19	730
Italian modern history	15	447
Italian Pagan Renaissance	23	371
Italian Republic	15	451
Italian Resurrection	15	453
Italy	7	305
	17	306
	17	485
	24	301
diplomatic relations of the United States with	15	440
history of the Middle Ages in	15	440
Italy and the World War	15	552
Italy's neutrality	15	554
Lepanto, Victory of	15	449
	17	306
Liguria	17	435
	24	301
Ligurian League	15	451
Lombard League	11	81
	15	433
Lombards	17	617
Lombardy	17	617
London, Treaty of (1915)	17	632
Longobardi	17	617
Lucania	5	154
	17	713
Lucca	17	715
Manfred	18	209
Mediæval republics	23	402
Medici Family	11	190
	18	567
Metal Age	15	437
Mortara Case	16	144
Naples	19	694
Insurrection	15	450
republicans of	15	451
National debt, Italian	19	730
Neoguelf Political School	15	455
Norman principalities	15	442
Orsini Family	21	11
Papacy and the government	15	472
Paris, Treaties of	15	453
Parthenopea	15	451
Parthenopean Republic	1	109
	21	353
Pavia	21	428
Peace of Aix-la-Chapelle	24	301
Peace of Lausanne	27	177
Pesaro	21	653
Plagues, history of	22	141
Political situation in Italy	28	392
Pompeii	22	343
Pontifical States	15	451
Quirinal	23	98
Renaissance in Italy	15	444
	15	445
	23	367
Revolution of 1821	15	454
Risorgimento	23	537
Roman Church	15	441
Roman Empire	11	81
Roman Republic	15	457

Italy — cont'd	Vol.	Page
Saint Quentin, Victory of	15	449
Santorre	15	454
Sardinia	14	282
	14	291
	24	300
Sardinian Monarchy	24	301
Savoy, House of	15	444
	24	330
Saxony, House of	15	442
Sicilies, Two	24	777
Sicily	24	779
Sicily, Kingdom of	15	443
Solaro of Margarita	15	456
Solferino	25	240
Spanish domination	15	449
Spanish predominance	15	448
Strozzi	25	741
Suabia, House of	15	442
Succession, War of	15	450
	25	783
Torino	27	179
Trentino, cession of	15	555
Triple Alliance	14	489
	15	462
	27	70
Tripoli	15	552
	27	75
Tripolitan War	15	553
Tunis	15	552
	27	145
Turin	27	179
Tuscany	15	450
	27	209
Grand Duchy of	15	450
United Italy	15	457
Utrecht, Peace of	15	450
Vatican, Ecumenical Council of the	15	459
	27	698
Velletri	15	450
Vendite	15	453
Venice	15	449
	28	3
Verona	28	34
Vienna, Congress of	15	453
	28	79
Villafranca, Armistice of	15	458
Villa Medici	28	87
Young Italy	15	455
Zürich, pact of	15	458
	29	740

Japan

Japan — cont'd	Vol.	Page
Age of Imperial administration	15	641
Age of military dictatorship	15	644
Age of Wars	15	679
Alliance with Great Britain	15	648
Amaterasu	24	716
Ancestor worship	24	716
Anglo-Japanese Alliance	16	514
Arisugawa	2	244
Ashikaga Epoch	15	645
Ashikaga Period	15	631
Choo-Yuen-Chang	15	654
Daimios	8	397
Dalny	8	421
Date-Masamune	15	657
Deities, Age of	15	641
Diplomatic relations with the United States	15	135
Foreign relations	15	653
Formosa	11	491
	15	658
Fujiwara Clan	15	630
Fujiwara Family	15	642
	15	643
Gyogibosatsu	15	642
Heian-cho Epoch	15	642
Heiji disturbance	15	644
Heimin	15	634
Hideyoshi	15	654
History of the Empire to 1889	15	641
History of Japan, 1889-1919	15	647
Hogen disturbance	15	644
Hojo-Tokimune	15	653
Ho-Mimi	24	716
Imperial administration	15	641
Iyemitsu	15	646
Iyeyasu	15	654
	15	657
Iyeyasu's Laws	15	646
Japanese Empire	15	641
Japan, history of	14	290
	14	293
	15	619
Japan, Awakening of	29	541
Jesuit missionaries in Japan	15	655
Kamakura Epoch	15	644
Kamiyo Period	15	641
Kemmu Era	15	645
Korea, cession of	15	654
Conquest of	15	641
Kwazoku	15	634
Kwozoku	15	633
La Rábida	16	580
Macao	15	655
Masakado	15	643
Matsudaira	18	438
Shungaku	18	438
Meiji	18	597
Meija Era	15	647
Meiji Restoration	15	699
Mikado	19	52
Military Emergency, Age of	15	645
Minamoto Clan	15	630
Muromachi Epoch	15	645
Nara Epoch	15	642
National debt, Japanese	19	730
Nationalism of Japan	19	759
Nihon	20	368
Ninigi	24	716
Nimana, Kingdom of	15	653
Nippon	20	368
Oda Period	15	645
O-Kuni-Nushi	24	716
Open Door Question	14	298
Portsmouth, Treaty of	22	409
Restoration and Constitutional Imperial administration	15	649
Revolt of Tadatsune	15	643
Rice riots	15	648
Russo-Japanese War	15	728
Samurai	15	660
Sea Battle at Dan-no-ura	15	644
Sekigahara, battle of	15	631
Shantung	24	657
Shimonoseki	24	713
Shinto-hero worship	24	716
Shizoku	15	634
Society, development and constitution of	15	629
Sumurai	15	648
Taikwa Reformation	15	642
Taira Clan	15	630
Taiten	8	421
Tokugawa Epoch	15	646
Toyotomi Period	15	645
Treaty ports	27	34
Tycoons. The last of the	14	298
Vendetta of the 47 Ronins	15	646
Wakamatsu	28	215
Wake-no-Kiyomaro	15	642
Yedo Epoch	15	646
Yorinobu	15	643
Yoritemo	15	630

Russia

Russia	Vol.	Page
Aigun, Convention of	1	273
Ak-mechet	25	21
Alma	1	429
Archives, central of Moscow	2	186
Archives central of Vilenskaya	2	186
Archives, Imperial Russian	2	186
Archives of the Holy Synod	2	186
Archives of the Imperial Council	2	186
Archives of Kief	2	186
Baku	3	63
Balaclava	3	65
Balaklava	3	65
Baltic Provinces	3	113
Bessarabia	3	586
Big Brotherly Policy	25	94
Blagoveshtchensk	4	51
Bobruisk	4	139
Bolsheviki	18	456
Bolshevists	28	472
Bolshevist War in Russia	28	471
Borodino	4	281
Brest-Litovsk	4	470
Cossacks	8	38
Cossacks of the Dnieper	24	60
Council of People's Commissioners	18	457
Courland, or Kurland	8	113
Crimean War	8	195
Decembrists	8	558
Demetrius	8	637
Demidoff (Family of)	8	638
Demidov (Family of)	8	638
Diplomatic relations with the United States	24	55
Don Cossacks	24	60
Duma Committee of Safety	24	14
Duma, establishment of	24	12
Franco-Russian loans	24	53
Golden Horde	13	27
Growth of Moscovite Empire	24	8
Helsingfors	14	87
Kaptchak	16	454
Kiptchak, or Kaptchak	16	454
Land and Liberty Party	17	120
London, Treaty of (1915)	17	632
Maximalists	18	456
Mobilization Responsibility, 1914	24	53
Moscow archives of the Ministry of Justice	2	186
National debt, Russian	19	730
Omsk government	28	472
Orloff Family	21	1
Pale of Settlement	21	138
Panslavism	1	296
	21	248
	24	54
Peace of Bucharest	1	362
Peace of Kutchuk Kainardji	24	62
Peace of Nystadt	21	657
Peace Rescript	24	54
Period of Transition (1917)	24	42
Petrograd	21	680
Pogrom	22	279
Portsmouth, Treaty of	22	409
Pripet Marshes	22	601

Russia — cont'd	Vol.	Page
Progressive Bloc	24	13
	24	14
Prohibition of Vodka	28	358
Pultusk	22	800
Relations with Germany	24	55
Revolution and military collapse in Russia	28	379
Revolution of March, 1917	19	736
Romanov Dynasty, ending of	24	14
Russia, history of	14	293
	24	6
	27	220
Russia and the World War	24	52
Russian Cossacks	24	59
Russian history	24	6
Russian loan	24	54
Russo-Turkish Wars	24	62
Ruthenians, The	28	630
Sebastopol	24	499
Serfdom in Russia	24	591
Sevastopol	24	499
Siberia	24	770
Simferopol	25	21
Smolensk	25	138
Soviet	25	318
	28	472
State archives	2	186
System of Appanages	24	7
Tartar Invasion	24	7
Territorial expansion, Russian	24	10
	24	11
Treaty of Tilsit	1	362
	26	628
Treaty of Vienna	1	362
Treaty Regulating Trade	24	75
Triple Entente	27	70
	28	265
Uprising of the Decembrists	24	12
Varangian Brothers	24	7
Willy-Nicky telegrams	24	55
Zaporozhians	24	60

Spain

Afrancesados	1	211
Alcazar of Alfonso the Learned	6	14
Alfonsists	25	338
Algeciras	1	394
Alhambra	1	398
	6	14
	13	121
Andalusia	1	656
Andorra	1	668
Aragon	2	131
Armada	2	263
Asiento	2	422
Asturias, The	2	483
Badajoz	3	32
Baetica	1	656
	3	37
Bailen	3	365
Barcelona	3	240
Baylen	3	365
Bayonne, Treaty of	3	368
Bidassoa	3	684
Bilbilis	3	700
Boabdil	4	135
Burgos	5	41
Cadiz	5	133
Caesars, The Era of	5	142
Calatrava, Order of	5	157
Calpe	5	235
Carlists	5	619
	25	338
Cartagena	5	677
Castellón de la Plana	6	4

Spain — cont'd	Vol.	Page
Catalan	6	36
Catalonia	6	42
Catholic Majesty	6	94
Celtiberi	6	177
Cid, El	6	671
Córdoba	7	689
Cordovan	4	256
Coruña, La, Spain	8	28
Cordwainer	4	256
Council of the Indies, The	8	97
	11	425
Ecija	9	544
El Ultimo Sospiro del Moro	4	135
Fernando Po	11	130
Galicia	12	236
Granada	13	121
Hermandad	14	129
History, Spain	25	331
Holy Brotherhood	14	129
Infante	15	116
Invincible Armada	2	263
	8	28
Island of Pheasants	3	684
Moors	19	435
Moriscos	19	459
Nuñez Vela	22	139
Oven of Andalusia	9	544
Pinta	22	105
Pyrenees, Peace of the	23	42
Renaissance in Spain	23	371
Royal line of the two Sicilies	4	348
Spain	25	322
American diplomatic relations with	25	349
history	25	331
Spanish Armada	24	113
Spanish-Bourbon Dynasty	4	348
Tarshish	1	656
Vandalusia	1	656
War of the Spanish Succession	2	631

Greece (Ancient)

Abantes	1	7
Achæa	1	85
Achæan Confederation	11	81
Achæan League	13	374
Achæans	1	85
	1	172
	13	370
Achæi	1	85
Achaia	1	85
Achaians	1	85
Acharnæ	1	86
Achates	1	86
Achelous	1	87
Acroceraunium	1	104
Acrocorinthus	1	104
Acropolis	1	104
Actium	1	108
Ægina	1	172
Ænianes	1	177
Æolian Colonies	13	370
Æolians	1	177
Æsopus	1	198
Ætolia	1	204
Ætolian League	11	81
Agis	1	237
Alexandrian Age	1	373
Alexandrian School	1	373
Alexiad	1	376
Amphictyonic Council	1	587
	11	81
Amphictyonic League	1	587
	13	371
Amphipolis	1	589
Amyclæ	1	596

Greece — cont'd	Vol.	Page
Amyntas	1	597
Antioch	2	35
Archon Eponymus	2	186
Archons	2	186
Argiletum	4	233
Argives	2	222
Argolis	2	222
Argonauts	2	224
Athenian naval power	17	112
Athens	2	494
Attica	2	523
Barathron	3	229
Battle of Salamis	17	112
	24	178
Bobolina	4	138
Bœotia	4	149
Bœotian War	25	362
Bucephalus	4	655
Bura	5	30
Byzantium	5	111
Calceus	4	255
Calydonian Boar Hunt	1	204
Castalia	5	720
Chersonesus	6	419
Choragic monument	6	590
Colophon	7	306
Corfu	7	691
Corinth	7	692
Corinthian War	25	362
Crete, or Candia	8	184
Creusa	8	188
Cynosarges	8	366
Cynoscephalæ	8	366
Cyprus	8	369
Cyrene	13	370
Decapolis, The	8	575
Delian Confederacy	14	269
Delian League	11	81
Delos	8	625
Dicast	9	77
Dorian migration	13	369
Dorians	9	265
	13	370
Eleusinian Mysteries	1	344
	10	224
Eleusis	10	224
Elis	10	244
Ephialtes	10	414
Ephoroi	10	415
Ephors	10	415
Epirus	10	429
Ergasteria	17	112
Eupatrides	10	576
Fanariots	21	706
Founder of political science, The	22	314
Four Hundred, The	1	344
Gela	12	360
Greatest Phœnician colony	14	269
Greece	13	369
Ancient	13	367
	13	369
Greece, colonial expansion of	14	268
Greek chronology	14	208
Greek civilization	14	269
Greek colonial expansion	14	269
Greek heroes	14	138
Greek political power, culmination and decline of	14	269
Greek race	14	267
Greeks, The	28	633
Heliopolis	3	2
Hellas	14	83
Helots	13	370
	14	86
Historical writing among the Greeks	14	210
Horuk	3	231

Greece — cont'd	Vol.	Page
Ionic Confederacy	13	370
Klephts	16	472
Laodamia	22	679
Laurion	17	112
Laurium	17	112
Lesbos	19	273
Leuctra	13	373
Lycian Group	11	81
Macedonia	13	370
	18	43
Magna Græcia	18	123
Marseilles	13	370
	18	322
Massilia	13	370
	18	322
Medea	18	532
Olympia	20	672
Olympiad	20	673
Olympic era	14	208
Olympic games	13	371
	20	674
Peace of Antalcidas	13	373
Peace of Philocrates	1	195
Peloponnesian League	14	269
Peloponnesian War	14	269
	21	487
	23	473
Peloponnesus	21	488
Periœci	13	370
Peace of Nicias (421 B.C.)	13	373
Phanariots	21	706
Philhellenes	21	740
Phocis	21	785
Phylæ	22	24
Piræus	22	114
Pityoussa	24	178
Plague	22	141
Platæa	22	226
Polemarch	2	186
Republics, history of	23	401
Return of the Heracleids	13	369
Rhapsodists	23	455
Selinus (ancient)	24	543
Sicilian Expedition	21	488
Sicily	13	370
	24	779
Sicyon	24	785
Slavery	25	89
Sparta	13	370
	25	362
Sybaris	26	155
Tarentum	26	265
Thais	26	486
Theban War	25	362
Thebes	26	504
Thermopylæ	13	372
	26	546
Thersites	26	547
Thesmothetæ	2	186
	26	548
Thessalia	26	549
Thessaly	26	549
Thirty Tyrants	13	373
	26	565
Thrace	13	370
	26	591
Wooden wall	29	495

Roman

Acta Diurna	1	106
Ædiles	1	172
Æmilian Way	1	174
African War	1	227
Ager Publicus	22	244
Agrarian Law	1	240
	13	102
Alphis Graia	24	123
Alphis Pœnina	24	123
Annales	22	118
Annals	26	206

Roman — cont'd	Vol.	Page
Appian Way	2	83
Arch of Constantine	2	151
Arch of Septimus Severus	2	151
Arch of Titus	2	151
Arch of Trajan	2	151
Augustales Ludi	2	544
Augustalia	2	544
Augustan Age	2	544
	11	259
Augustus, Arch of	2	551
Forum of	2	551
Aurea Bulla	14	329
Baebia Gens	3	36
Baiæ	3	49
Barbarian invasions	14	272
Barrack Emperors	24	512
Basilica Porcia	11	524
Baths of Agrippa	3	338
Baths of Caracalla	3	338
Baths of Diocletian	3	338
Baths of Gratian	1	293
Baths of Titus	3	338
Battle of Châlons	1	204
Baxa	4	255
Baxea	4	255
Blemmyes	4	76
Blemyes	4	76
Brindisi	4	541
Brundusium	4	541
Caduceator	14	111
Cæsarion	5	141
Calagurris	5	154
Caliga	4	255
Campus Martius	5	287
Campus Sceleratus	5	287
Cannæ	5	501
Caracalla, Edict of	14	271
Circus	6	696
Circus Maximus	23	665
Civitas Hippocrates	24	182
Clientes	7	100
	22	244
Cólosseum, The	7	252
	23	665
Comitia	7	362
	22	244
Centuriata	22	244
Tributa	22	244
Commodus, Reign of	14	272
Confarreatio	7	486
Constantinople	7	557
	14	272
Construction of the main Roman roads	23	558
Cothurnus	4	255
Crepida	4	255
Curia	8	306
Curiæ	22	244
Curule ex-Magistrates	14	271
Dacia	8	388
Dark Ages, The	8	478
De Bello Jugurthino	24	190
Decemvirs	8	558
Decline and Fall of the Roman Empire	8	566
De Conjuratione Catilinæ	24	190
Dictator	9	86
Dies Fasti et Nefasti	9	99
Dies Nefastus	9	100
Duumvirs	9	443
Empire at its height, The	14	271
Empire, decline of the	14	272
Esquiline Hill	10	506
Fabii, Arch of the	10	691
Fabrician Bridge	10	695
Fæsulæ	11	187
Fames Calagurritana	5	154
Fasti	11	52
Annales	11	52

Roman — cont'd	Vol.	Page
Kalendares	11	52
Sacri	11	52
Feriæ	11	125
Ficus Ruminalis	11	178
Fidenæ	11	179
Fiesole	11	187
First Punic War	23	668
First Triumvirate	22	345
Fisc	11	263
Flaminian Way	11	331
Forum	11	524
Appii	11	525
Romanum	11	524
Gens	12	401
Gentes	22	244
Germans and Rome	14	273
Golden House of Nero	13	27
Good emperors	14	271
Goths	11	196
	13	80
	23	671
Gracchan Law	13	102
Gracchi	13	101
	14	271
Heliopolis	3	2
	14	78
Herculaneum	14	120
Herculanum	14	120
Holy Roman Empire	14	327
Invasion of the Gauls	23	668
Latin civilization	14	270
Latin Confederacy	23	667
Lentulus	17	292
Lex Hortensia	22	244
Lictors	17	403
Livia Drusilla	17	540
Lunata Pellis	4	255
Mediterranean World, expansion of the Roman power over	14	270
Megalensia	18	592
Megalesia	18	592
Mettelli	18	712
Milan Edict	19	54
Milvain Bridge	19	140
Mulvain Bridge	19	140
Naumachia	19	781
Naumachy	19	781
Nervii	20	81
Nibe of Nations	20	366
Ostia	21	34
Paludamentum	21	220
Parthenopean Republic	21	353
Patricialuna	4	255
Patricians	21	402
Patron	21	405
Plague, history of	22	141
Plebeians	22	244
Plebs	22	244
Plutocracy, growth of	14	270
Police, Roman	22	301
Population of Ancient Rome	23	663
Populus	22	244
Porcia	22	373
Potentia	22	448
Præcones	14	111
Princeps	14	271
Process of Roman expansion	19	746
Proscription	22	669
Publicani	22	783
Punic Wars	23	17
Quirinal	23	98
Ramnes	23	661
	23	663
Reorganization of Diocletian and Constantine	14	272
Republican Rome	23	668
Republics, history of	23	402
Retiarius	23	436

Roman — cont'd	Vol.	Page
Revolution, Period of..	14	272
Rhætia	23	454
Roman chronology	14	208
Roman citizenship	14	271
Roman Empire	14	265
	14	270
Roman Galleys	24	112
Roman Province, First..	14	270
Roman Republic, Beginning of	14	268
Roman Republic, Decline of	14	270
Roman Theatre	23	666
Rome	23	658
	23	661
Romulan Circus	23	665
Rubicon	23	748
Sabines	24	84
Sagunto	24	110
Saguntum	24	110
Saint Angelo Castle	24	121
Saint Bernard Pass, Great	24	123
Little	24	123
Salamantica	24	177
Salii	24	184
Collini	24	184
Samnites	23	668
	24	221
Seleucia Pieria (ancient)	24	539
Seleucia Tracheotis (ancient)	24	539
Seleucid Empire	14	270
	24	539
Sempronian Law	13	102
Slavery	25	89
Soccus	4	255
Social War	23	669
Spanish Cæsars	24	511
Tarentum	26	265
Tarraco	26	274
Tarsus	26	275
Thrace	26	592
Tibialia	4	255
Triumph	27	79
Via Flaminia	11	331
Visigoths	11	196
Western Empire, The	29	221
Yoke	29	638
Zela	29	696

China

Black flags	4	34
Boxer massacres	14	298
Boxers	4	368
	25	204
Celestial Empire	6	167
Chia-Ch'ing	16	397
China	6	516
diplomatic relations with the United States	6	533
Great Wall of	6	547
history of	6	525
	14	298
western intrusion in	29	539
Chinese chronology	10	438
Chinese Republic	27	220
Chi-Tse	16	397
Fohi	11	413
Kang-Hsi	16	291
K'ang-Yu-Wei	16	292
Kia-K'ing	16	397
Ki-Tse	16	397
Lolos	17	615
Middle flowery kingdom	19	40
Middle kingdom	19	40
Open Door policy in China	7	400
	14	13

China — cont'd	Vol.	Page
Opium traffic	20	712
Peking	21	476
Pekin	21	476
Perfect peace, heavenly dynasty of	14	499
Plague, history of	22	141
Shantung	24	657
Singan-Fu	25	33
Taipings	26	218
Timur Beg	26	637
Timur Leng	26	637
Yuan	29	673
Yuen	29	673

Cuba

Anvil of Baracoa	3	227
Bahia-Honda	17	654
Baracoa	3	227
Bayamo	3	360
Constitution of Cuba	8	282
Cuba-American diplomatic relations with	8	287
Cuba, history of	8	278
Invasion of Cardenas	17	654
Round Island expedition	17	654
Spanish-American War	8	282
United States and Cuba	8	281

Egypt

Abatos	1	8
Abonkir	1	46
Abukir	1	46
Abu Klea	1	55
Alexandria	1	371
Amenhotep	1	477
Amenophis	1	477
Ancient Egyptian Empire	19	745
Assouan	2	426
Assuan	2	426
Berenice	3	540
Bubastis	4	651
Bubastus	4	651
Cephren	6	412
Cheops	6	412
Chephren	6	412
Cleopatra's needles	7	89
	14	79
Damietta, Egypt	8	431
Egypt	10	1
archæology	10	10
during the World war	10	9
history of	10	1
Emerald mines of Kebel Zobara	5	146
Fatimides	11	57
Fatimites	11	57
Fayoum, The	11	73
Fayum, The	11	73
Great Britain in Egypt	29	535
Heliopolis	14	78
Hellenists	14	84
Hyksos	14	594
Iron, first people to use	14	266
Khedive	16	390
Mahdi (leader of the faithful)	11	57
	18	92
Maker of modern Egypt	8	222
Mamalukes	18	173
Mamlouks	18	173
Merneptah	18	620
Mineptah	18	629
Mines	18	629
Necho	20	36
Nekau	20	36
Osymandyas	21	39
Palamon and Arcite	21	135
Pelopidas	21	487

Egypt — cont'd	Vol.	Page
Pharaohs	14	266
	21	707
Plague, history of	22	141
Plagues of Egypt	22	142
Queen of Zer	16	50
Rhampsinitus	23	454
Rosetta Stone	22	751
Saladin	24	176
Salahed-Din Yussuf Ibn-Ayud	24	176
Sesostris	24	606
Sestesura	24	606
Seti	24	607
Shishak	24	737
Tel-el-Keber	5	149
	26	401
Thothmes	26	590
Userten	27	606
Zerah	29	703

Hebrew and Jewish

American Jewish Historical Society	14	240
Armageddon	2	264
Asmonæans	2	401
Ben	3	498
Hasmonæan Dynasty	25	25
Hebrew chronology	14	208
Hebrews	14	267
Hebrews beginnings of.	14	266
Hellenes	14	268
Jewish nationalism	14	239
Jews in Africa	16	138
and Judaism	16	84
Asia	16	139
Australia	16	137
Austria	16	139
France	16	140
Germany	16	140
Great Britain	16	140
North America	16	142
Norway	16	141
South and Central America	16	143
Sweden	16	142
West Indies	16	143
Judges of Israel	16	233

Holland

Agosta	1	239
Amstelredam	1	592
Amsterdam	1	592
Barrier Treaty	3	279
Batavia	3	327
Batavian Republic	3	328
	11	604
Beggars	3	443
Bergen-Op-Zoom	3	545
Boise-Le-Duc	4	174
Bolsward	4	196
Breda	4	458
Brielle	4	534
Camperdown	5	283
Cautionary towns	6	133
Consulta	7	581
Delfshaven, Holland	8	619
Dutch East India Company	15	657
Flushing	11	404
Gueux, Les	13	527
Hanseatic League	4	196
	13	684
Hertogenbosch	4	174
Holland	1	296
	14	318
	20	88
Joyeuse Entrée	16	226
Joyous Entry	16	226
Mersen, Treaty of	18	682
Netherlands	7	301
	20	90

Holland— cont'd	Vol.	Page
Netherlands, Kingdom of	20	88
Partition Treaties	21	354
Peace of Ryswick	24	74
Plague, History of	22	141
Polders	20	88
Republics, History of	23	403
Rijswijk	24	74
Ryswick	24	74
Treaty of Breda (1667)	9	49
Utrecht, Union of	27	622

India

Afghan War	15	16
Agra	1	239
Akbar	1	294
	15	13
Alpetegin	15	13
Alumbagh	1	454
Assam	2	411
Aurengzebe	15	13
Baber	3	5
Barrackpur	3	274
Bengal	3	512
Bithur	4	23
Black Hole	4	36
Britain in India	29	539
Burmese War, The second	15	16
Calcutta	5	184
Cawnpore	6	153
Cawnpur	6	153
Chronology, Indian	10	438
Dacoits	8	389
Daulatabad, India	8	494
Delhi, India	8	620
Dutch East India Company	15	14
East India Companies	9	503
Expedition of Alexander	15	12
Fort Saint David	11	507
Ganges	12	272
Ghazna	15	13
Hindustan	15	1
Khan	15	13
Khilgi Dynasty	15	13
Khoord Cabul Pass	15	16
Indian mutiny	15	17
	17	719
Indostan	15	1
India	15	1
	15	12
Indica	24	257
Lac	16	626
Lak	16	626
Mahrattas	15	13
	18	138
Maisur	19	662
Mogul Dynasty	15	13
Mysore State	19	662
Nautch	19	782
Oudh, Annexation of	15	16
Pandit	23	16
Pathan Dynasty	15	13
Peshwas	21	653
Pindarees	22	96
Pindaris	22	96
Pindharees	22	96
Plagues, History of	22	142
Pondicherry	7	618
	15	14
	22	349
Pundit	23	16
Samvat	24	229
Sandrocottus	24	257
Scinde	25	32
Sikhs	15	16
	24	807
Sind	25	32
Sindh	25	32
Sivaji	15	13
Taj Mahal	1	239

India — cont'	Vol.	Page
Taj Mahal	26	219
Tamerlane	15	13
Tantia Topi	15	30
	26	250
Tippoo Saib	15	15

Mexico

Acordad	1	96
Aztec Confederacy	2	691
Aztec Empire	2	691
Buena Vista	4	684
Cacumazin	5	266
Caminatzin	5	266
Chapultepec, battle of	6	300
Churubusco, battle of	6	664
Cortes' First Landing	24	243
Diplomatic Relations of the United States with Mexico	18	797
Gadsden Treaty	12	217
	18	740
Independent Mexico	18	793
Mahua Indians	19	681
Mexico	18	740
history	18	791
Pre-Conquest Period	18	791
Puebla	22	787
Pyramid	23	40
Republics, history of	23	406
Spanish Rule	18	792
Treaty of Guadalupe-Hidalgo	18	740
Zona Libra	29	724

Switzerland

Altdorf	1	446
Bern	3	567
Bernouilli	3	575
Bernoulli	3	575
Bienne, Lake of	3	691
Brugg	4	628
Bürglen	5	40
Erlach	10	479
Helvetia	1	4
Helvetii	14	87
House of Hapsburg	4	628
Oldest of Republics	26	153
Orgetorix	20	793
Reformation	26	151
	26	152
Representative government	23	387
Sempach	24	556
Sonderbund Krieg	11	83
Swiss Confederation	11	81
Swiss Republic	23	404
Switzerland	14	291
	26	150

Turkey

Adrianople	1	155
Ægospotamoi	1	173
Ægospotamos	1	173
Ak-Shehr	1	296
Ala-Shehr	1	310
Anadoli Hissar	1	603
Anglo-French-Russian coalition	24	63
Angora	1	694
Bagdad	3	38
Bairaktar	3	55
Basrah	3	319
Bassora	3	319
Berlin-Bagdad Railroad	3	39
	29	537
Berlin Memorandum	3	565
	24	63
Betlis	3	593
Bitlis	3	593
Constantinople	7	557

Turkey — cont'd	Vol.	Page
Cos, or Kos	8	31
Crimean War	8	195
Crimean War Period	27	191
Engour	1	694
Foundation of the Ottoman Empire	26	563
Gallipoli	1	173
	12	249
Medjidie	18	590
Melek-Shah	24	543
National debt, Turkish	19	730
New Rome	7	560
Ottoman Empire, The, Diplomatic relations with United States	27	195
Peace of Lausanne	27	177
Philadelphia	1	310
Roma Nova	7	560
Rhodes	23	473
Rumeli Hissar	23	772
Russo-Turkish War, 1678	24	62
Russo-Turkish wars	24	62
Seljuks	24	543
of Iran	24	543
of Kerman	24	543
Sick Man of Europe, The	24	784
Sophia	25	260
Treaty of Belgrade	24	62
Treaty of the Pruth	24	62
Turkey	27	186
Turkey, diplomatic relations with United States	27	195

Biographies

UNITED STATES

Abbott, W. C.	14	249
	14	254
Abercrombie, James	1	37
Abercromby, James	1	37
Acland, Lady Christian Henrietta Caroline Fox	1	94
Acosta, José	1	97
Acton, Thomas Coxon	1	109
Adair, James	1	113
Adair, John	1	114
Adams, Charles Francis	1	119
Adams, Charles Kendall	1	119
	14	248
Adams, George Burton	1	120
	14	249
Adams, Henry	1	120
	14	248
Adams, Herbert Baxter	1	121
	14	248
Adams, John	1	122
Adams, John Quincy	1	121
	1	122
	1	123
Adams, Samuel	1	125
Adee, Alvey Augustus	1	134
Adler, Cyrus	1	142
Alarcon	5	214
Alden, John	1	353
Alexander, Abraham	1	366
Alexander, James	1	366
Alexander, William	1	371
Allen, Ebenezer	1	412
Allen, Ethan	1	413
	5	50
	28	25
Allen, Henry Watkins	1	414
Allen, Ira	1	414
Allen, Robert	1	415
Allerton, Isaac	1	418
Altgeld, John Peter	1	451
Ames, Adelbert	1	568
Amherst, Jeffery, Baron	1	570
Ampudia, Pedrode	1	590
André, John	1	670

Biographies — cont'd	Vol.	Page
Andrews, Charles McLean	1	674
	14	250
Andros, Sir Edmund	1	677
Archdale, John	2	165
Archer, Branch T	2	167
Armstrong, John	2	286
Arnold, Benedict	2	313
Arnold, Samuel Greene	2	318
As-se-he-ho-lar	21	18
Atchison, David R	2	488
	4	268
Attucks, Crispus	2	528
Austin, Jonathan Loring	2	562
Austin, Moses	2	562
Austin, Stephen Fuller	2	562
Aviles, Pedro Menéndez d'	2	679
Bache, Sarah	3	15
Bacon, Nathaniel	3	24
Baldwin, Abraham	3	76
Baltimore, Lord	3	119
	8	359
Bancroft, George	3	133
	14	241
	14	248
Bancroft, Hubert Howe	3	134
	14	240
Bandelier, Adolph Francis Alphonse	3	139
Banister, John	3	146
Banks, Edgar James	2	433
Barbe-Marbois, François Marquis de	3	234
Barber, Edwin Atlee	3	235
Barber, Francis	3	235
Barnum, Phineas Taylor	3	269
Bartlett, Ichabod	3	293
Bassett, John Spencer	3	318
Batcheller, George Sherman	3	328
Bate, William Brimage	3	328
Bates, Joshua	3	329
Bates, Samuel Penniman	3	330
Battle, Kemp Plummer	3	343
Baxter, James Phinney	3	357
Baxter, Sylvester	3	358
Bayard, John	3	361
Bayard, Nicholas	3	361
Baylies, Francis	3	365
Beatty, John	3	388
Becker, Carl	14	253
Beer, George Louis	3	429
	14	249
Belknap, Jeremy	3	471
Bennett, James Gordon	3	520
	5	123
Berkeley, Sir John	3	555
Berkeley, Sir William	3	26
	28	121
Bernard, Sir Francis	3	569
Beverley, Robert	3	602
Birney, William	4	9
Bittinger, Lucy Forney	4	26
Black, John Charles	4	31
Blackstone, William	4	46
Blair, Francis Preston, Jr.	4	53
Bledsoe, Albert Taylor	4	74
Blennerhassett, Harman	4	78
Block, Adriaen	4	91
Blommaert, Samuel	4	103
Bloomfield, Joseph	4	116
Blount, William	4	118
Bogardus, Everardus	4	153
Bogart, John	4	152
	14	252
Bollan, William	4	192
Bollman, Eric	4	193
Bonaparte, Jerome (I)	4	204
	4	205
Bonapartes of Baltimore	4	207

Biographies — cont'd	Vol.	Page
Bonham, Milledge L	4	214
Boone, Daniel	4	247
	23	571
Booth, Mary Louise	4	253
Borland, Solon	4	275
Botetourt, Norborne Berkeley	4	312
Boudinot, Elias Cornelius	4	322
	4	323
Bourne, Edward Gaylord	4	352
	14	249
Bowie, James	4	364
Bowie, Oden	18	367
Bowles, William A	4	365
Braddock, Edward	4	383
Bradford, Alden	4	384
Bradford, William	4	385
Bradstreet, Simon	4	389
Brant, Joseph	4	415
Braxton, Carter	4	422
Brenton, William	4	468
Brewster, William	4	486
Brown, Alexander	4	602
Brown, John	4	268
	4	607
	14	183
Brown, William Garrott	4	612
Brownell, Henry Howard	4	618
Buchanan, James	4	659
Buckner, Simon Bolivar	4	669
Buel, Clarence Clough	4	683
Buffalo Bill	7	198
Burchard, Samuel Dickinson	5	32
Burgess, John William	14	242
	14	248
	14	252
Burlingame, Anson	5	49
Burns, Anthony	5	59
Burr, Aaron	5	63
	13	656
	14	183
Burr, George Lincoln	5	64
	14	248
	14	254
Burr, Theodosia	5	64
Burroughs, George	5	66
Butler, Howard Crosby	5	79
	20	805
Butler, Zebulon	5	83
Byers, William Newton	5	95
Byles, Mather	5	96
Byllynge, Edward	5	96
Byrd, William	5	97
Cabell, William	5	117
Cadillac, Antoine de la Motte	5	133
	19	26
Caldwell, Howard Walter	5	189
Caldwell, James	5	189
Calhoun, John Caldwell	5	194
	27	401
Call, Daniel	5	225
Call, Richard Keith (1st)	5	225
Call, Richard Keith (2d)	5	225
Call, Wilkinson	5	225
Callahan, James Morton	5	225
Callender, James Thomas	5	226
	14	252
Calvert, George	3	119
	18	359
Calvert, Leonard	3	119
	18	359
Campbell, Alexander	5	277
Campbell, John	5	279
Cantine, George A	11	309
Caperton, Allen Taylor	5	552
Carnegie, Andrew	5	632
	13	617
Carr, Dabney	5	660

Biographies — cont'd	Vol.	Page
Carr, Lucien	5	661
Carr, Sir Robert	5	661
Carroll, Charles	5	672
	18	363
Carson, Christopher	5	675
Carson, Kit	5	675
Carteret, Philip	5	680
Carteret, Sir George	5	679
Carver, John	5	689
Cary, Lott	5	691
Cass, Lewis	5	705
Chamberlain, Mellen	6	261
Champe, John	6	271
Champlain, Samuel de	6	273
	28	23
Channing, Edward	6	289
	14	248
	14	249
Chase, Samuel	6	345
Chew, Benjamin	6	433
Chisholm, Jesse	6	569
Chittenden, Thomas	6	571
Chouteau, Auguste	6	595
Chouteau, Auguste Pierre	6	595
Claiborne, William Charles Cole	7	29
Clap, Roger	7	32
Clare, Israel Smith	7	33
Clark, Abraham	7	39
Clark, George Rogers	7	41
	17	689
	28	94
Clark, William	7	44
Clay, Henry	7	450
	27	401
Clayborne, William	7	29
Cleaveland, Moses	7	79
Clinton, Charles	7	113
Clymer, George	7	141
Coddington, William	7	194
Cody, William Frederick	7	198
Coffin, Joshua	7	213
Colden, Cadwallader	7	240
Coleman, William Tell	7	243
Colepepper, Thomas	8	296
Columbus, Christopher	7	339
	11	195
Connelley, William Elsey	7	533
Conway, Thomas	7	618
Coolidge, Archibald Cary	7	632
	14	250
Cornbury, Edward Hyde	7	707
Cornstalk	7	715
Coxe, Tench	8	141
Cresap, Michael	8	180
Crockett, David	8	217
Culpepper, John	8	296
Cushing, Thomas	8	334
Cushman, Robert	8	335
Cutler, Manasseh	8	340
Czolgosz, Leon	8	384
Dabney, Richard Heath	8	387
Dale, Sir Thomas	8	414
Dana, Richard	8	445
Dane, Nathan	8	450
Dare, Virginia	8	473
Datha	8	490
Davenport, John	8	497
Davis, Edwin Hamilton	8	508
Deane, Charles	8	538
Deane, Silas	8	538
De Forest, Jesse	8	592
De Kalb	5	256
De Peyster, Abraham	8	702
De Peyster, Johannes	8	702
De Vries, David Pietersen	9	44
Dixwell, John	9	212
Dodge, Richard Elwood	9	221
Dongan, Thomas	9	257

Biographies — cont'd	Vol.	Page
Donop, E. W. F. von	14	159
Draper, John W	9	312
	14	256
Drayton, William Henry	9	320
Driver, Stephen	11	317
Dudley, Joseph	9	382
Dunmore, John Murray	9	405
Dunning, William Archibald	9	407
	14	254
Dustin, Hannah	9	430
Easton, Nicholas	9	513
Eaton, Theophilus	9	517
Eden, Sir Robert	9	579
Egbert, James Chidester	9	721
Ellery, William	10	252
Ellis, Edward Sylvester	10	256
Ellis, George Edward	10	256
Ellis, John Willis	10	256
Elson, Henry William	10	266
Emerton, Ephraim	10	291
Ericsen, Lief	28	120
Ericson, Leif	10	475
Fairfax, Thomas	10	719
Faneuil, Peter	11	9
Fanning, David	11	10
Fanning, Edmund	11	10
Farman, Elbert Eli	11	37
Farmer, John	11	38
Farrand, Max	14	249
Fauquier, Francis	11	64
Fee, John G	11	88
Felt, Joseph Barlow	11	106
Fendall, Josias	11	115
Fenwick, George	11	117
Fenwick, John	11	117
Ferguson, Professor	14	249
Fillmore, Millard	11	210
Finley, Robert	11	226
Fisher, Sydney George	11	282
Fiske, John	11	296
	14	242
Fletcher, Benjamin	11	348
Fling, Fred Morrow	11	356
Floyd, William	11	401
Folger, Peter	11	415
Folsom, George	11	423
Force, Peter	11	461
	14	240
Ford, Paul Leicester	11	466
	14	241
Ford, Worthington C	11	466
	14	241
Foster, Stephen Symonds	11	530
Fowke, Gerard	11	561
Franklin, Benjamin	11	310
	22	769
Franklin, William	12	18
Frémont, John Charles	12	58
Friedenwald, Herbert	12	103
Fries, John	12	109
Frothingham, Arthur Lincoln	12	126
Frothingham, Richard	12	127
Gadsden, Christopher	11	312
	12	217
Gannett, Henry	12	274
Garden, Alexander	12	282
Gardiner, Lion	12	288
Garfield, JJames A	2	412
	12	290
Garrison, William Lloyd	12	298
	27	386
Gates, Seth Merrill	12	336
Gates, Sir Thomas	12	336
Gayarré, Charles Etienne Arthur	12	348
Gerry, Elbridge	11	744
Gerstle, Lewis	12	625
Girty, Simon	12	667

Biographies — cont'd	Vol.	Page
Gist, or Guest, Christopher	12	688
Gliddon, George Robbins	12	716
Gookin, Daniel	13	59
Gordon, Capt. Nathaniel	1	675
Gorges, Sir Ferdinando	13	65
Gorton, Samuel	13	67
Grayson, William	13	168
Green, Beriah	13	422
Green, Edmund Fiske	11	296
Greene, George Washington	13	428
Grinnell, Josiah Bushnell	13	480
Gross, Charles	13	487
Guyot, Arnold	13	584
Gwinnett, Button	13	586
Half-King	13	636
Hall, Isaac Hollister	13	642
Hall, Lyman	13	643
Hamilton, Alexander	11	85
	13	654
	24	505
	27	47
Hamilton, Henry	19	26
	28	94
Hamilton, John Church	13	659
	14	241
Harper, Robert Francis	2	433
	13	720
Harrison, Benjamin	13	728
Harrison, Carter	2	412
	13	729
Hart, Albert Bushnell	13	732
	14	249
Hart, John	13	733
Haskins, Charles Homer	13	750
Hasse, Adelaide	14	241
Haupt, Paul	13	759
Hawley, Joseph	14	8
Haynes, John Henry	2	433
Headley, Joel Tyler	14	27
Heathcote, Caleb	14	50
Heco, Joseph	14	61
Heister, Philipp von	14	159
Helm, Israel	14	84
Hemstreet, Charles	14	93
Henderson, Richard	14	94
Hennepin, Louis	14	96
Henry, Patrick	14	106
	28	122
Henry, William Wirt	14	108
Herjulfson, Bjarne	28	104
Hewes, Joseph	14	161
Heyward, Thomas, Jr.	14	163
Hildreth, Richard	14	241
Hill, D. J	14	250
Hilprecht, Herman Volrath	14	191
Hinckley, Thomas	14	193
Hinoyossa, Alexander d'	14	199
Hittell, Theodore Henry	14	299
Holmes, Abiel	14	321
Holst, Hermann Eduard von	14	324
Hooper, William	14	369
Hoover, Herbert Clark	14	370
Hopkins, Edward	14	371
Hopkins, Stephen	14	373
Hopkinson, Francis	14	373
Houston, Sam	14	440
Hubbard, William	14	464
Hudde, Andreas	14	467
Hunt, Gaillard	14	240
	14	241
Hunt, John	14	520
Hunter, Robert	14	514
Huntington, Samuel	14	518
Hutchins, Thomas	14	528
Hutchinson, Thomas	14	529
Hyde, Edward	14	537

Biographies — cont'd	Vol.	Page
Ingersoll, Jared	15	129
Ingersoll, Robert Green	15	129
Izard, Ralph	15	570
Jackson, Thomas J	15	581
James, Jesse W	15	605
Jameson, John Franklin	14	241
	15	608
Jans, Anneke	15	614
Jastrow, Morris, Jr	15	752
Jay, John	11	85
	15	760
Jefferson, Thomas	13	362
	16	1
	28	122
Johnson, Edward	16	170
Johnson, Sir William	16	180
Johnson, Thomas	18	365
Johnson, William Samuel	7	566
	16	181
Johnston, Christopher	16	185
Johnston, Gabriel	16	185
Jones, Anson	16	195
Joseph, Charles	4	208
Joseph, Chief	16	211
Jumel, Eliza	16	246
Juneau, Laurent Solomon	16	247
Karlsefne, Thorfinn	28	104
Kenton, Simon	16	363
Keokuk, Moses	16	374
Key, Francis Scott	11	309
	16	385
	18	366
Kicking Bird	16	399
Kidd, William	16	400
Kieft, William	16	406
Kilbourne, James	16	410
King, William Rufus	16	434
Kinzie, John	16	451
Kooweskoowe	23	704
Koszta, Martin	2	635
Kregier, Martin	4	509
Lamb, John	7	408
	16	671
Lafitte, Jean	16	650
Lane, Sir Ralph	16	714
Langlade, Charles Michel de	16	720
Lawson, John	17	154
Lea, Henry Charles	17	169
Lechford, Thomas	17	210
Lee Family, The	17	226
Lee, Francis Bayley	17	218
Lee, Francis L	17	219
Lee, Guy Carleton	17	219
Lee, John Doyle	17	220
Lee, Richard Henry	17	221
Lee, Robert E	17	221
Leete, William	17	230
Leif the Lucky	28	104
Leisler, Jacob	17	272
Le Moyne, Antoine	17	166
Le Moyne, Joseph	17	167
Leonard, Daniel	17	302
Leverett, John	17	328
Levett, Sir John	17	328
Lewis, Francis	17	334
Lieber, Franz	14	248
	17	405
Linguest, Pierre Laclede	24	150
Lincoln, Abraham	17	445
	27	319
	27	418
Livingston, Peter van Brugh	17	541
Livingston, Philip	17	542
Livingston, Robert	17	542
Livingston, William	17	542
Logan, Benjamin	17	594
Logan, George	11	744
Logan, James	17	595

Biographies — cont'd	Vol.	Page
Lone Wolf (Guipago)	17	635
Lovejoy, Elijah Parish	17	694
Lovejoy, Owen	17	695
Lovelace, Francis	17	695
Lovell, James	17	695
Lowndes, Rawlins	17	705
Ludlow, Roger	17	722
Lundy, Benjamin	17	789
Luzac, Jean	17	765
Lynch, Thomas, Jr	17	777
Macalister, R. A. S	20	803
MacArthur, Duncan	18	8
McGillivray, Alexander	18	49
McKean, Thomas	18	64
McKim, James Miller	18	71
McKinley, William	2	412
	5	537
	18	72
MacIntosh, William	18	62
Mackay, John W	5	123
Madison, James	11	85
	18	98
Madoc, Prince	5	34
Markham, William	18	300
Marquand, Allan G	18	307
Marquette, Père	16	38
Marshall, John	6	418
	18	326
Mason, George	18	379
Mason, John	18	381
Mather, Cotton	4	294
	18	435
Mather, Increase	18	435
Mathews, Shailer	14	259
	18	437
Mawhood, Colonel Charles	27	47
May, Samuel Joseph	18	460
Mayer, Brantz	18	464
Mayhew, Thomas	18	466
Ménard, Michel Branamour	18	621
Menendez De Aviles y Marquez, Pedro	18	628
Mercea, Henry Chapman	18	655
Meredith, Samuel	18	672
Merriam, Augustus Chapman	18	678
Miantonomoh	19	8
Middleton, Arthur	19	42
Middleton, Henry	19	43
Mifflin, Warner	19	46
Milledge, John	19	115
Miller, Francis Trevelyan	19	118
Milton, John	19	139
Minneuit, Peter	19	215
Minuit, Peter	19	215
Mitchell, Samuel Augustus	19	268
Moldenke, Charles Edward	19	311
Monro, Dana Carleton	19	370
Monroe, James	14	289
	19	371
Montgomery, James	4	268
Montour, Esther	19	413
Moore, Clarence Bloomfield	19	428
Moore, George Henry	19	430
Moore, James	19	431
Moore, John Bassett	14	241
	14	250
	19	432
Moore, Maurice	19	433
Moorehead, Warren King	19	434
More, Nicholas	19	444
Morris, Gouverneur	11	85
	11	744
	19	475
Morris, Lewis	19	476
Morris, Mary Philipse	19	477
Morris, Robert	11	313
	19	477
Morton, John	19	490
Morton, Thomas	19	492
Morwitz, Edward	19	492
Most, Johann Joseph	19	509
Motley, John Lothrop	14	284
	19	513
Mott, James	19	519
Muhlenberg, John Peter Gabriel	19	549
Müller, Wilhelm Max	19	559
Munro, Wilfred Harold	19	595
Murphy, Henry Cruse	19	609
Murray, John O'Kane	19	611
Murray, Mary Lindley	19	611
Murray, William Vans	19	611
Neighbors, Robert S	20	61
Nelson, Thomas	20	66
Newman, Francis	20	274
Nicholson, Sir Francis	20	318
Ninigret	20	362
Nogaret, Stanislas Henri Lucien de	20	390
North, Roger	20	410
Norton, Richard	20	435
Nowell, Increase	20	479
Nuttall, Zelia	20	523
Oberholtzer, Ellis Paxson	20	538
O'Callaghan, Edmund Bailey	20	554
Oconostóta	20	573
Odell, Jonathan	20	581
Oglethorpe, James Edward	20	607
Oldham, John	20	657
Old Hickory	20	655
Oliver, Andrew	20	665
Olney, Jesse	20	671
Olney, Richard	20	671
Opechancano	20	699
Osborne (Samuel), Duffield	21	17
Osceola	21	18
Otis, James	4	294
	21	43
Ouray	21	52
Paca, William	21	86
Paine, John Alsop	21	105
Paine, Robert Treat	21	105
Paine, Thomas	21	105
Palfrey, John Gorham	21	203
Palmer, Anthony	21	211
Paltsits, Victor Hugo	21	219
Parker, Arthur Caswell	2	326
	21	326
Parkman, Francis	14	241
	21	333
Pastorius, Francis Daniel	21	377
Paterson, William	7	565
	21	396
Patterson, Elizabeth	4	207
Patterson, John H	24	391
Patterson, Robert	21	408
Patton, Geo. S	23	612
Patton, Jacob Harris	21	411
Pauw, Michael	14	305
Paxon, Frederick Logan	21	431
Payne, David L	21	433
Peet, Stephen Denison	21	471
Pendleton, Edmund	21	501
Penhallow, Samuel	21	507
Penn, John	21	511
Penn, Richard	21	512
Penn, Thomas	21	512
Penn, William	11	310
	18	362
	21	512
	21	514
Pepperell, William	11	311
Pepperell, Sir William	21	565
Perry, Oliver Hazard	21	607
	22	74
Peters, John Punnett	2	433
	21	663
Peters, Samuel	21	664
Peyton, Jesse Enlows	21	700
Phillips, Henry	21	762
Phipps, Sir William	21	783
Phips, Sir William	21	783
Pierce, Franklin	22	73
Pike, Robert	22	82
Pitcher, Moll	22	120
Pocohontas	2	194
	22	269
Pomeroy, Seth	22	341
Pontiac	9	31
	19	26
	22	350
Popham, George	22	264
	22	361
Porter, Pleasant	22	392
Potter, Robert B	22	433
Powhatan	22	497
	23	277
Prence, Thomas	22	531
Prentiss, Sergeant Smith	22	532
Prescott, William Hickling	14	241
	22	544
Prince, Thomas	22	531
Printz, Johan	22	600
Prints, John	21	526
Pound, Robert	22	695
Pulaski, Casimir	22	794
Putnam Frederick Ward	23	33
Putnam, Israel	23	34
Putnam, Rufus	23	34
Pynchon, John	23	39
Quana, Parker	23	56
Quantrell, William	23	57
Quimby, Phineas Parkhurst	23	90
Quitman, John Anthony	11	207
	23	99
Raleigh, Sir Walter	23	196
Randall, James R	18	367
	23	207
Randolph, Edmund	7	565
	7	567
	23	208
Randolph, Edward	23	208
Randolph, Peyton	23	209
	28	126
Rau, Charles	23	230
Realf, Richard	23	254
Rebecca, Lady	22	269
Red Cloud	23	277
Red Jacket	23	281
Redway, Jacques Wardlaw	23	290
Reese, Michael	23	297
Reisner, George Andrew	23	336
Revere, Paul	16	57
	23	446
Rhodes, James Ford	14	249
	23	473
Ribault, Jean	23	482
Richardson, Rufus Byam	23	494
Ridge, John	23	511
Ridpath, John Clark	23	513
Rigdon, Sidney	23	518
Robertson, James	23	571
	23	580
Robinson, Beverly	23	578
Robinson, Charles	23	578
Robinson, Edward	20	802
Rolfe, John	22	269
	23	634
Roman Nose	23	641

Biographies — cont'd	Vol.	Page
Roosevelt, Theodore	14	241
	23	680
	23	684
	27	225
Ross, Betsy	23	706
Ross, George	11	313
	23	703
Ross, John	23	704
Rowlandson, Mary White	23	733
Rutledge, John	8	121
	24	68
Sabine, Lorenzo	24	81
Sacagewea	24	86
Sahkahgarweah	24	86
Salmon, Haym	24	196
Sampson, Deborah	24	226
Saville, Marshall Howard	24	329
Scharf, John Thomas	24	363
Schmucker, Samuel Mosheim	24	382
Schouler, James	14	249
	24	461
Scott, Dred	24	439
	27	462
Sears, Isaac	7	406
	24	490
Seward, William H.	14	184
	24	625
Seyffarth, Gustave	24	632
Shays, Daniel	24	668
Shea, John Dawson Gilmary	24	669
Shepherd, William Robert	24	698
Sherman, Roger	14	300
	24	704
Shirley, William	24	737
Shotwell, James Thomson	24	756
Simon, Joseph	25	24
Sims, Thomas M.	25	29
Sitting Bull	25	48
Slafter, Edmund Farwell	25	81
Slidell, John	25	97
Sloane, Rush Richard	25	98
Sloane, William Milligan	25	99
Smith, James	25	121
Smith, James	25	121
Smith, John	25	122
	28	120
Smucker, Samuel Mosheim	24	382
Soley, James Russell	25	239
Sommerville Maxwell	25	252
Sparks, Edwin Erle	25	360
Sparks, Jared	14	240
	25	360
Spears, John Randolph	25	366
Spotswood, Alexander	25	444
Squier, Ephraim George	25	465
Standish, Myles	25	481
Stanwood, Edward	25	488
Staples, William Read	25	488
Stephens, Alexander Hamilton	25	618
Stephens, William	25	620
Sterne, Adolphus	25	631
Sterrett, John Robert Sitlington	25	633
Stephens, H. Morse	14	247
	25	620
Stevenson, Sara Yorke	25	642
Stewart, Alvan	25	642
Stirling, Lord	1	371
Stith, William	25	655
Stockton, Richard	25	662
Stoddert, Benjamin	25	666
Stone, Thomas	25	679
Stone, William Leete	25	679
Stoughton, Israel	25	701
Stoughton, William	25	701
Stringfellow, Gen. B. F.	4	268
Strong, Caleb	25	739
Stryker, William Scudder	25	743
Stuyvesant, Petrus	25	759
Tarbell, Frank Bigelow	26	266
Tassels, George	6	417
Taylor, Henry Osborn	14	249
	26	299
Taylor, Zachary	7	450
	26	302
Teach, Edward	26	309
Thatch, Edward	26	309
Thoburn, Joseph Bradfield	26	569
Thompson, Jacob	26	578
Thorndike, Lynn	14	249
	26	587
Thornton, Matthew	26	588
Thwaites, Reuben Gold	26	606
Ticknor, George	26	608
Tilghman, Matthew	26	625
Tomochichi	26	683
Torrey, Henry	14	248
Touro, Judah	16	135
	26	721
Townsend, Thomas Seaman	26	727
Tryon, William	27	117
Tubman, Harriet	27	127
Turnbull, Robert James	27	202
Turner, Nat	27	204
Tyler, John	27	232
Tyler, Moses Coit	14	248
	27	233
Uncas	27	269
Underhill, John	27	274
Usher, John	27	607
Usher, Roland Greene	27	607
Valentini, Philip Johann Joseph	27	645
Van Braam, Jacob	27	663
Van Buren, Martin	27	663
Van Cortlandt, Jacobus	27	665
Van Cortlandt, Stephanus	27	665
Van Curler, Arendt	27	665
Van Curler, Jacobus	27	665
Van der Capellen, Joan Derck	27	666
Van der Donck, Adrian	27	667
Van der Heyden	27	101
Van Horn, Le Roy	11	309
Van Rensselaer, Kilaen	27	673
Van Rensselaer, Killian	27	673
Van Rensselaer, Stephen	2	39
	27	673
Van Shaack, Peter	27	674
Van Twiller, Walter	27	674
Van Twiller, Wouter	27	674
Van Tyne, Claude Halstead	27	674
Vane, Sir Henry	27	682
Vesey, Denmark	13	659
Vespucci, Amerigo	11	195
	28	48
Vigo, Francis	28	94
Vines, Richard	28	108
Von Holst, Hermann E.	14	242
	14	324
Walker, Francis Amasa	28	227
Walker, Jonathan	28	228
Walker, Robert J.	28	229
Walker, Thomas	28	230
Walker, William	11	207
	28	230
Walton, George	28	251
Ward, Nathaniel	28	699
Warner, Seth	28	27
Warren, James	28	708
Warren, Joseph	28	760
Warren, Mercy Otis	28	709
Washington, George	10	719
	28	121
	28	773
Washington, Martha	28	780
Washington, Mary	28	780
Weare, Meshech	29	180
Webster, Daniel	27	401
	29	146
Webster, Ebenezer	29	149
Wentworth, Benning	29	192
Wentworth, Sir John	29	192
West, Thomas	29	199
Wheeler, James Rignall	29	250
White, Andrew D.	14	248
	29	264
White, Peregrine	29	268
Whitman, Marcus	29	281
Willett, Marinus	11	313
	29	328
Williams, James Douglas	29	341
Williams, John	29	341
Williams, Roger	23	468
	29	343
Williams, William	29	345
Winslow, Edward	29	399
Winslow, Josiah	29	401
Winslow, William Copley	29	401
Winsor, Justin	14	241
	29	401
Winthrop, Fitz-John	29	405
Winthrop, John	29	405
	29	406
Wolcott, Mary	5	66
Wolcott, Roger	29	436
Wood, William	29	475
Woodburn, James Albert	29	492
Woodruff, Wilford	29	498
Woolman, John	29	507
Worcester, Samuel Austin	29	511
Wright, Elisur	29	568
Wythe, George	29	591
Yardley, Sir George	29	620
Yeardley, George	28	121
	29	620
Young, Bennett H.	24	121
Zane, Ebenezer	29	686
Zimmerman, Jeremiah	29	709

BRITISH EMPIRE

	Vol.	Page
Abercromby, Sir Ralph	1	37
Acton, John E. E. D.	1	109
	14	248
Adye, Sir John Miller	1	172
Æthelbald	10	532
Aethelfla'ed	10	532
Agricola, Julius	13	174
Aiguillon, Marie de Vignerot	1	273
Albemarle, Duke of	5	423
Albert, Prince	1	330
Alcock, Sir Rutherford	1	345
Alexandra, Caroline Marie Charlotte Louise Julie	1	371
Alexander I	1	364
Alexander II	1	364
Alexander III	1	365
Alfred	1	380
	13	176
Allenby, Sir Edmund Henry Hyman	1	417
Allen, John Romilly	1	415
Aluredus of Beverley	1	380
Amherst, Jeffery, Baron	1	570
Angers, Sir Auguste Réal	1	682
Anglesey, Henry William Paget, Marquis of	1	683

Biographies — cont'd	Vol.	Page
Anne, Queen	1	717
	13	191
Annesley, Francis (6th Earl of)	1	718
Antrobus, Sir Edmund	2	47
Armstrong, Edward	2	285
Arran, Earls of	2	326
Arthur	2	353
Asgill, John	2	382
Ashburnham, John	2	384
Ashley, Lord	14	252
	24	639
Ashmole, Elias	2	387
Aske, Robert	2	400
	2	408
Asquith, Herbert H	14	336
Athelstan	2	493
Atkyns, Sir Robert	2	501
Atteridge, Andrew Hilliard	2	522
Aubrey, John	2	530
Audley, Sir James	2	536
Audley of Walden, Thomas	2	536
Ayloffe, Sir Joseph	2	684
Babington, Anthony	3	6
Bacon, Francis	3	19
	14	224
Bacon, Sir Nicholas	3	24
Bacon, Roger	3	25
	22	40
Bagshaw, Edward	3	44
Baillie, Robert, of Jerviswood	3	53
Baines, Sir Edward	3	55
	3	25
Baker, Sir Richard	3	61
Balfour, James	3	80
Balfour, John	3	81
Baliol, Edward	3	81
	8	500
Baliol, John	3	81
Balliol, John	3	81
Ball, John	3	93
	11	554
Balmerino, Arthur Elphinstone	3	111
Barbon, Praise-God	3	246
Baring, Alexander	2	384
Baring Alexander	2	384
	5	419
Barker, Ernest	14	247
	14	254
Bartholomew, John George	3	291
Battenberg, Henry Maurice	3	341
Beard, Charles A	14	253
Beardslee, Lester Anthony	3	381
Beaton, Cardinal	2	412
	3	387
Beaufort, Margaret	3	389
Beck, Sir Adam	3	403
Bede	3	412
	14	219
Bedford, John Russell	3	414
Beesly, Edward Spencer	3	430
Bell, James	3	475
Benger, Elizabeth Ogilvy	3	514
Berengaria	3	539
Bergami, Bartholommeo	3	543
Berners, John Bourchier	3	572
Bertie, Willoughby	3	581
Bidwell, Marshall Spring	3	688
Biencourt De Poutrincourt, Charles	3	691
Biencourt De Poutrincourt, Jean	3	691
Bienville, Jean Baptiste le Moyne	3	691
Biggar, Henry Perceval	3	697

Biographies — cont'd	Vol.	Page
Birch, Thomas	3	724
Birrell, Augustine	4	9
	15	355
Blackwood, Adam	4	48
Bladen, Frank Murcott	4	51
Blair, John	4	54
Bligh, William	4	81
Blood, Thomas	4	104
Bloody Mackenzie	18	68
Boadicea	4	139
	13	174
Bodley, John Edward Courtenay	4	145
Boece, Hector	4	147
Boeis, Hector	4	147
Boethius, Hector	4	147
Boleyn, Anne	4	180
Bolingbroke, Henry St. John	4	181
Bonner, Edmund	4	219
Bonnie Prince Charlie	13	194
	25	745
Bothwell, James Hepburn, Earl of	4	313
Boucher, Pierre	4	321
Boulton, Charles Arkoll	4	329
Boyce, Hector	4	147
Bradlaugh, Charles	4	387
Bradshaw, John	4	388
Braklonde, Jocelin de	4	408
Brewer, John Sherren	4	475
Bridges, Robert	4	530
Bridgewater, Francis Egerton	4	531
Bright, James Franck	4	538
Brisbane, Sir Thomas MacDougall	4	545
Britton, John	4	566
Brock, Sir Isaac	4	570
	9	32
Brown, John	4	606
Brown, Peter Hume	4	610
Browning, Oscar	4	620
Bruce, Edward	4	624
Bruce, David	4	624
Bruce, Robert (1)	4	623
	24	433
Bruce, Robert (2)	4	623
Bruce, Robert (3)	4	623
Brummel, George Bryan	4	630
Bryant, Jacob	4	647
Bryce, James	4	648
	14	247
	14	253
Brymner, Douglas	4	650
Buchanan, George	4	657
	14	223
Buckingham, George Villiers (1st)	4	665
Buckingham, George Villiers (2d)	4	666
Buckle, Henry Thomas	4	668
	14	256
Buckley, William	2	571
Budge, Ernest A. Wallis	4	677
Bull, John	5	8
Burgess, James	5	38
Burke, Edmund	5	45
	14	238
	23	600
Burke, John	5	47
Burke, John Bernard	5	47
Burnet, Gilbert	5	55
	14	224
Burton, John Hill	5	68
Bury, J. B	5	70
	14	247
	14	254
Bute, John Patrick Crichton-Stuart	5	77
Bute, John Stuart	5	77

Biographies — cont'd	Vol.	Page
Butler, James	5	79
Butt, Isaac	5	84
	14	335
Cabot, John	5	126
	14	101
Cade, John	5	132
Cæsar, Julius	5	138
	13	174
Calliéres, Bonnevue, Louis Hector, Chevalier de	5	227
Camden, William	5	255
	14	224
Campbell - Bannerman, Henry	14	335
Campbell, John	5	279
Canmore, Malcolm	13	229
Canning, Stratford	5	504
	13	197
Canute, The Dane	13	176
Canute, The Great (Knud)	5	538
Capel, Arthur, Lord	5	549
	5	550
Capgrave, John	5	553
Capisucchi, Paolo	5	558
Caractacus	5	583
	13	174
Cardigan, Adeline Louisa Maria	5	601
Carleton, Gen. Guy	5	317
	5	417
	5	615
Carleton, Thomas	5	615
Carlile, Richard	5	617
	5	624
Carlyle, Thomas	14	234
Carnarvon, Henry Howard Molyneux	5	631
Caroline Amelia Elizabeth	5	648
Carr, Robert, Viscount Rochester	5	661
Carson, Edward	5	675
	14	336
	15	321
Carstairs, William	5	676
Carstars, William	5	676
Carte, Thomas	5	677
Carteret, John Earl Granville	5	679
Carteret, Sir George	5	423
Cartier, Jacques	5	685
	19	414
	23	75
Cartwright, John	5	697
Casement, Sir Roger	4	10
	5	699
	9	371
	15	352
Casgrain, Philippe Baby	5	701
Castine, V. Baron De	6	7
Catharine of Aragon	6	54
Catharine of Braganza	6	54
Catharine of Valois	6	56
Cavendish, Frederick	6	150
	15	320
Cerdic	6	223
Champlain, Samuel de	19	414
	23	74
	23	75
Chandler, Richard	6	286
Charles I	6	314
	13	187
	13	607
Charles II	6	317
	24	617
Chouart, Medard	5	422
Clarendon, Edward Hyde	7	35
	13	187
	14	224

Biographies — cont'd	Vol.	Page
Clarendon, George William Frederick Villiers	7	36
Clarke, Edward Daniel..	7	46
Clarke, Thomas J.....	15	352
Claverhouse	13	107
Clifford, George.....	7	102
	7	103
Cobden, R.....	7	176
	13	199
Coke, Sir John.....	13	187
Collins, David	2	571
Colborne, Sir John.....	7	233
Colby, Charles William.	7	234
Cole, King.....	7	242
Columba, Saint.....	5	282
	7	333
	13	228
Comyn, John	7	456
	7	457
Connaught and Strathearn, Duke of, Arthur William Patrick Albert	7	524
Connolly, James.....	15	352
Cook, James.....	2	570
	7	621
Cooper, Thomas.....	7	638
Cornwall, Duke of.....	7	715
Cornwallis, Edward	7	716
Cotton, Sir Robert Bruce	8	60
Courcelle, Daniel de Rémy	8	113
Coxe, William.....	8	141
Cranmer, Thomas	8	159
	14	101
Creasy, Sir Edward Shepherd	8	168
Creighton, Louise von Glehn	8	176
Crichton, James.....	8	190
Cromwell, Oliver.....	8	223
	8	225
	13	188
	16	75
	24	616
Cromwell, Richard.....	8	225
Cromwell, Thomas, Earl of Sussex.....	8	225
Cunningham, Allan.....	8	303
	14	272
Cunobelinus	8	364
Curry, Thomas.....	5	338
Cymbeline	8	364
Dagobert II.....	15	358
Daithi	14	165
Dalhousie, George Ramsay, 9th Earl of.....	8	415
Dalrymple, David, Lord Hailes	8	422
Dalrymple, James, 1st Viscount Stair.....	8	422
Dampier, William.....	2	570
	8	432
Daniel, Samuel.....	8	452
Darnley, Henry Stuart, Lord	2	412
	8	480
David I.....	8	500
David II.....	8	500
	13	229
Davitt, Michael.....	8	514
Dee, John.....	8	574
Defoe, Daniel.....	8	587
De Peyster, Arent Schuyler	8	702
Dermot, MacMurragh...	8	713
Derwentwater, James Ratcliffe, Earl of.....	8	716
De Troyes, Chevalier....	5	338
D'Iberville, Pierre le Moyne	5	338
	5	423

Biographies — cont'd	Vol.	Page
Digby, Sir Edward.....	9	108
Dixwell, John.....	9	212
Dollard, Adam.....	9	236
Downing, Sir George....	9	288
Drake, Francis.....	9	301
	22	403
Dudley, Lord Guildford.	9	382
Dudley, John.....	9	382
Dudley, Robert.....	9	383
Dugdale, Sir William...	9	388
Duke, Henry Edward..	14	336
Dumont, Gabriel.....	9	399
Dunmore, John Murray.	9	405
Duval, Claude.....	9	443
Dyer, Thomas Henry...	9	451
Eadmund	9	590
Eadwig	9	712
Earls of Angus, The....	9	277
Earls of Douglas, The..	9	277
Eden, William.....	9	579
Edgar	9	582
Edgar Atheling.....	9	582
Edmund	9	589
Edmund I.....	9	590
Edmund II.....	9	590
Edred	9	591
Edward (the Black Prince)	9	706
Edward the Confessor..	9	702
	10	232
	13	176
Edward the Elder.....	9	702
Edward the Martyr....	9	702
Edward I.....	9	702
	13	229
Edward II.....	9	703
	13	180
Edward III.....	9	703
	11	586
	13	180
	14	329
Edward IV.....	9	704
Edward V.....	9	705
Edward VI	9	705
Edward VII.....	9	705
	27	220
Edwin	9	712
Edwy	9	712
Egbert	9	721
	13	175
Eleanor of Aquitaine...	10	59
Eliot, Sir John.....	10	242
Elizabeth	10	245
	13	185
Elton, Charles Isaac....	10	267
Emmet, Robert.....	10	297
Eochy, The First.....	15	317
Eredia, Manoel Godhino de	2	570
Erskine, John of Dun...	10	485
Erskine, Ralph.....	10	486
Esher, Reginald Baliol Brett	10	498
Ethelbald	10	532
Ethelbert	10	532
Ethelfleda	10	532
Ethelred I.....	10	532
Ethelred II.....	10	532
Ethelwulf	10	533
Eudes of Bayeux.....	20	584
Evans, Arthur (John)..	10	590
Evans, John.....	10	592
	14	251
Ewart, John Slirving...	15	321
Fabian, Robert.....	10	607
Fabyan, Robert.....	10	607
Farnell, Lewis Richard.	11	42
Fawkes, Guy.....	11	71
Fellows, Sir Charles....	11	105
Felton, John.....	11	107
Fenwick, Sir John.....	11	118
Ferguson, Robert.....	11	124

Biographies — cont'd	Vol.	Page
Fergusson, James.....	11	124
Ferland, Jean Baptiste Antoine	11	125
Fife, Alexander William George Duff.....	11	188
Filmer, Sir Robert.....	11	211
Finch, Heneage.....	11	216
Finlay, James	5	338
Firth, Charles Harding.	11	262
	14	247
Fisher, John	11	281
Fitch, Ralph.....	11	298
Fitzalan, Henry.....	11	299
Fitzalan, Richard.....	11	299
Fitzalan, Richard, Jr...	11	299
Fitzalan, Thomas	11	300
Fitzgerald, Edward.....	11	300
Fitzherbert, Maria Anne (Smythe)	11	302
Fitzwalter, Robert.....	11	303
Fleetwood, George.....	11	342
Fletcher, Andrew.....	11	348
Flint, Robert.....	14	254
Flood, Henry.....	11	360
Florence of Worcester..	11	365
Forbes, Duncan.....	11	460
Ford, Patrick.....	11	466
Fordun, John of.....	11	467
Forster, William Edward	11	495
Fortescue, Sir John....	11	514
Fox, Charles James....	11	562
Fox, William Johnson..	11	564
Francis, Sir Philip.....	11	757
Franklin, Sir John.....	12	12
Franks, Sir Augustus Wollaston	12	18
Fraser, Simon.....	5	339
	17	694
Frederick, Louis.....	12	36
Freeman, Edward Augustus	12	50
	12	61
French, John.....	15	321
Frobisher Brothers.....	5	338
Frontenac, Louis de Buade	12	123
Froude, James Anthony	12	127
	14	234
Fyffe, Charles Alan.....	12	212
Gairdner, James	12	229
	14	247
Galahad, Sir.....	12	230
Gardiner, Samuel Rawson	12	288
	14	247
Gardner, Ernest Arthur.	12	289
Gardner, Percy.....	12	289
Garibaldi	13	199
Garneau, François Xavier	12	294
Garstang, John.....	12	300
	14	257
Gaveston, Piers.....	12	345
Geoffrey of Monmouth..	12	407
George, Duke of Clarence	7	34
	12	473
George David Lloyd....	12	476
	14	336
George, Prince of Denmark	12	473
George I.....	12	473
	13	189
George II.....	12	473
George III.....	12	474
	13	191
George IV.....	12	474
George V.....	12	475
Gerald De Barri.....	12	663
Gibbon, Edward.....	12	639
Gildas	12	650
	13	175
Gillam, Capt. Zachariah.	5	423

Biographies — cont'd	Vol.	Page
Giraldus Cambrensis	12	663
Gladstone, William E.	12	677
	14	335
Glendower, Owen	12	715
Glyndwr, Owen (Glendower)	13	238
Godwin	12	748
Godwineson, Harold	13	177
Gordon, Lord George	13	63
Gosford, Archibald Acheson	13	68
Gough, Brigadier-General	15	321
Graham, John	13	107
Grant, Cuthbert	5	339
Gratian	13	174
Green, Alice Sophia Amelia	13	421
Green, John Richard	13	422
	14	252
Green, Mary Anne Everett	13	423
Grenfell, Bernard Pyne	13	460
Greville, Charles Cavendish Fulke	13	463
Grey, Edward of Fallodon	13	465
	27	73
Grey, Lady Jane	13	465
Grierson, Sir Robert	13	469
Griffith, Francis Llewellyn	13	471
Grose, Francis	13	486
Groselliers, Sieur de	5	422
Grote, George	13	489
Guest, Edwin	13	527
Gwynn, Eleanor	13	586
Gwynn, Nell	13	586
Hacker, Francis	13	607
Hamilton, James	2	326
	13	658
Hardecanute	13	696
Hardicanute	13	696
Hardrada, Harold	13	170
Hardy Canute	13	696
Hardy, Duffus	14	287
Harley, Robert	13	711
Harold I	13	720
Harold II	13	720
Hassall, Arthur	13	750
Hastings, Warren	13	751
Hatton, Sir Christopher	13	758
Head, Barclay Vincent	14	25
Head, Sir Francis Bond	14	25
Hearne, Samuel	5	338
	14	36
Hengist	13	175
	14	95
Hennepin, Louis	14	96
Henrietta, Maria	14	98
Henry, Alexander	5	338
Henry of England	11	583
Henry I	13	177
	14	98
Henry II	13	177
	14	98
Henry III	14	99
Henry IV	13	180
	14	99
Henry V	13	180
	14	100
Henry VI	13	180
	14	100
Henry VII	14	100
Henry VIII	11	281
	14	101
Hereward	14	128
Hodgkin, Thomas	14	308
Hogarth, David George	14	311
Holinshed, Ralph	14	316
Holinshed, Raphael	14	316
Holland, Samuel	14	317
Hood, Robin	14	360
Horsa	13	175
Hoveden, Roger of	14	451
Howard, Katharine	14	453
Howden, Roger of	14	451
Hubert de Burgh	14	465
Hume, David	14	491
Hume, Martin Andrew Sharp	14	493
Hyde, Anne	14	537
Hythe	14	612
Innes, Thomas	15	142
Innocent III	13	178
	15	143
Isabella, Countess of Arundel	26	562
Jacobites	15	590
James, Earl of Murray, Regent of Scotland	2	412
James I	13	185
	15	601
James II	15	602
James III	15	603
James IV	15	603
James V	15	603
John	13	178
	16	156
John, Claude Hermann Walter	16	156
Johnston, Alexander Keith	16	184
Juchereau, Louis, Sieur de Saint-Denis	16	228
Kearnach, Conall	14	166
Keith, Sir William	16	336
Keltie, Sir John Scott	16	346
Kempe, John	16	349
Kempt, Sir James	16	350
Kenneth I	16	357
Kent, Edward	15	352
Kent, Edward Augustus, Duke of	16	361
Ker, Robert, Viscount Rochester	5	661
King, Edward Viscount Kingsborough	16	429
King of Ockham, Peter, 1st Baron	16	440
King of Ockham, Peter, 7th Baron	16	440
Kingsborough, Viscount Edward King	16	446
Kingsley, Charles	13	198
	16	446
Kingston, Duchess of	16	447
Kirkcaldy, Sir William	16	457
Kirke, Sir David	16	458
Knight, Richard Payne	16	482
Knollys, Sir Francis	16	489
Knox, John	16	495
Knox, William	16	498
Lane-Poole, Stanley	16	714
Lanfranc	16	715
Langham, Simon de	16	720
Langley, Edmund de	29	641
Langton, Stephen	16	722
Latimer, Hugh	16	765
Lauzon, Jean de	17	114
Laverdiere, Claude H.	17	119
Lawrence, Col. Thomas	28	414
Layard, Austen Henry	2	433
	17	157
	20	798
Leake, William Martin	17	177
Leathes, Stanley	14	247
	17	201
Lecky, William E. H.	17	210
Leland, John	17	275
Le Moyne, Charles	17	166
Le Moyne, Jacques	17	166
Le Moyne, Jean Baptiste	17	167
Le Moyne, Joseph	17	167
Le Moyne, Paul	17	167
Le Moyne, Paul Joseph	17	167
Lenthall, William	17	291
Lesley, John	17	315
Lewis, Agnes Smith	17	332
Leyland, John	17	275
Lilburne, John	17	436
Lionel of Antwerp	7	34
Liverpool, Charles Jenkinson	17	535
Lodge, Richard	14	247
Loftie, William John	17	593
Lovat, Simon Fraser	17	694
Lovelace, Richard	17	695
Low, Charles Rathbone	17	697
Lubbock, John	17	711
Lucy, Sir Thomas	17	720
Lyall, Alfred Comyn	17	767
Macbethad, MacFinlegh	18	15
Macbeth, MacFinlegh	18	15
MacBride, John	15	352
MacCool, Finn	14	165
MacDearmada, Sean	15	352
MacDonagh, Thomas	15	352
Macdonald, Flora	18	35
Macdonald, Sir William	18	38
	24	391
MacDonnell, Anthony Patrick	18	38
Mackenzie, Sir George	18	68
Mackintosh, Sir James	14	237
	18	74
McLeod, John	18	79
McLoughlin, John	18	80
McMahon, Sir Arthur Henry	18	81
McMillan, Sir Daniel Hunter	18	83
MacNeill, John	15	351
MacRoy, Fergus	14	165
Madden, Frederic William	18	96
Maisonneuve, Paul de Chomedy, Sieur de	18	152
	19	415
Maitland, Frederick W.	14	253
	18	153
Malcolm, King of Scotland	13	176
	18	163
Malcolm II	13	229
	18	163
Margaret	13	229
Margaret of Anjou	18	278
Margaret of Norway	13	229
Marlborough, John Churchill	18	302
Martin, Josiah	18	338
Mary Queen of Scots	18	349
	25	58
Mary I	18	349
Mary II	18	349
Masham, Abigail Hill	18	377
Matthew of Paris	14	219
May, Thomas Erskine	18	461
Meares, Capt. John	5	339
	18	479
Melbourne, William Lamb	18	602
Melvill, Andrew	18	611
Melville, Andrew	18	611
Melville, Sir George	18	611
Merivale, Charles	18	675
Middleton, General Sir Frederick	23	514
Mill, James	19	110
Milner, John	19	131
Mitchel, John	19	264
Mitford, William	19	270

Biographies — cont'd	Vol.	Page
Money, Walter	19	345
Monmouth, James	19	361
Montague, Francis Charles	19	381
Montfort, Simon de	19	406
Moore, Henry	19	431
More, Sir Thomas	14	223
	19	444
	25	57
Morgan, Sir Henry John	19	451
Morier, James Justinian	19	458
Morier, Sir Robert Burnett David	19	458
Morland, Sir Samuel	19	460
Mortimer, Roger	19	488
Morton, James Douglas	19	490
Morton, George	19	489
Mourt, George	19	489
Muir, Sir William	19	551
Munro, Robert	19	595
Murray, Gen. James	5	417
	19	610
Myres, John Linton	19	660
Nash, Richard	19	712
Nathan, Matthew	15	355
Newton, Sir Charles Thomas	20	288
Nicolas, Harris	14	237
Nicolas, Sir Nicholas Harris	20	328
Nithsdale, William Maxwell, 5th Earl of	20	371
Norfolk, Henry Howard, 6th Duke of	20	400
Norfolk, Thomas Howard, 3d Duke of	20	400
Norfolk, Thomas Mowbray, 1st Duke of	20	400
North, Francis, 1st Baron Guilford	20	409
North, Roger	20	410
Northumberland, John Dudley, Duke of	20	430
Northumberland, Robert de Mowbray, Earl of	20	430
Oates, Titus	20	531
O'Brien, William Smith	20	546
O'Connell, Daniel	20	571
O'Connor, Roderic, or Rory	14	166
	20	572
Odo of Bayeux	20	584
O'Hanrahan, H.	15	354
O'Kelly, Charles	20	664
Oldcastle, Sir John (Lord Cobham)	20	657
Oldys, William	20	658
Olive, Princess of Cumberland	20	663
O'Mahoney, John D.	11	116
O'Malley, Grace	20	679
Oman, Charles William Chadwick	14	247
	20	680
O'More, Roger, or Rory	20	684
O'More, Rory, or Rury Oge	20	684
O'Neill, Sir Phelim	20	689
O'Neill, Sir Turlough Luineach, Earl of Tyrone	20	689
Ormonde, Duke of	5	79
Oswald, Richard	21	38
Ouseley, Sir Gore	21	53
Ouseley, Sir William Gore	21	54
Overton, Richard	21	60
Owen, Sir Douglas	21	63
Palgrave, Sir Francis	21	204
Parker, John Henry	21	328
Parnell, Charles Stewart	14	335
	21	340

Biographies — cont'd	Vol.	Page
Parr, Catherine	21	342
Parr, Thomas	21	342
Paterson, Robert	21	390
Paulinus, Suetonius	13	174
Pearse, Patrick H.	15	351
Pearson, Charles Henry	21	457
Penn, William	11	342
	21	515
Pepys, Samuel	21	567
Perceval, Spencer	2	412
	21	570
Percy, George	21	573
Peterborough, Charles Mordaunt	21	661
Peter, Hugh	21	662
Peters, Hugh	21	662
Philip of Valois	11	586
Pigott, the Forger	15	821
Pinkerton, John	22	102
Pitt, William	6	352
	13	195
Plunkett, Horace Curzon	22	259
Plunkett, Joseph	15	352
Pococke, Edward	22	270
Pollard, A. F.	14	247
Pont, Timothy	22	349
Pory, John	22	419
Powell, Frederick York	22	475
Pride, Thomas	22	570
Prothero, George Walter	14	247
	22	689
Prynne, William	22	724
Pughe, William Owen	22	793
Pulteney, William	22	799
Queensberry, John Sholto Douglas	23	80
Queensberry, William Douglas	23	81
Raleigh, Sir Walter	23	196
	24	613
Ramsay, Sir William Mitchell	23	205
Randolph, Edward	23	208
Rawlinson, George	23	237
Rawlinson, Sir Henry	2	434
	20	798
	23	237
Redgauntlet, Sir Robert	13	469
Redmond, John Edward	14	335
	23	289
Reid, Hercules	15	325
Rennell, James	23	377
Renouf, Peter Le Page	23	379
Renwick, James	23	382
Riccio, David	2	412
	23	484
Rich, Claudius James	2	432
Richard I	13	178
	23	489
	27	214
Richard II	13	180
	23	490
Richard III	23	490
Richard of Cirencester	23	491
Richard Plantagenet	23	491
Ridgeway, William	23	511
Riel, Louis	23	514
Ritson, Joseph	23	542
Rizzio, David	23	484
Robert II	23	565
Robert III	23	565
Robert, Duke of Normandy	23	266
Robert of Gloucester	23	566
Robertson, James Burton	23	572
Robertson, William	23	573
Roche, Troilus de Mesgouat	23	588
Rochester, John Wilmot	23	589
Roger of Hoveden	14	217
	23	627

Biographies — cont'd	Vol.	Page
Roger of Howden	23	627
Roger of Wendover	23	627
Romilly, Lord	14	237
	23	674
Rosamond	23	690
Rose, John Holland	14	247
	23	693
Rosebery, Lord	13	200
	14	335
	23	695
Round, J. H.	14	247
Russell, Lord John	13	199
	23	786
Russell, William	23	787
Saris, John	15	658
Selkirk, Alexander	2	570
	24	543
Selkirk, Thomas Douglas	24	544
Seymour, Lady Jane	24	633
Sharp, Archbishop	2	412
Shaw, William	14	335
Shore, Jane	24	745
Sidney, Algernon	24	786
Simcoe, John Graves	25	21
Simnel, Lambert	25	24
Simon of Montfort	13	179
Skene, William Forbes	25	68
Smith, George	2	433
	25	117
Smith, Thomas	25	128
Somers, John	25	250
Sophia Dorothea	25	260
Speed, John	25	384
Spelman, Sir Henry	25	389
Stafford, William Howard	25	470
Stanhope, Lady Hester Lucy	25	482
Stedman, Charles	25	561
Stein, Sir Mark Aurel	25	611
Stephen, Leslie	14	254
	25	618
Stephens, James	11	116
	25	620
Stigand, William	25	646
Stirling, William Alexander	25	653
Strachey, William	25	707
Strafford, Thomas Wentworth	25	707
Strickland, Agnes	25	734
Stuart Family	25	743
Stuart, Arabella	25	744
Stuart, Charles Edward Louis Philip Casimir	25	745
Stuart, James	25	745
Stuart, James Francis Edward	25	747
Stuart, Mary	18	349
	25	349
Stubbs, William	14	237
	25	749
Stuckely, Thomas	25	750
Stucley, Thomas	25	750
Talbot, William Henry Fox	2	434
	26	221
Tasman, Abel Jansen	2	570
Tate, George	26	282
Terry, Charles Sanford	26	449
Thirlwall, Connop	26	557
Thistlewood, Arthur	26	568
Thomas à Becket	2	412
	3	406
Thomas, Duke of Clarence	7	34
Thomas, Saint, of Canterbury	13	178
Tippoo Sahib	13	196
	26	643
Torres, Luis Vaez de	2	570

Biographies — cont'd	Vol.	Page
Tout, T. F.	14	247
Tresham, Francis	27	49
Trevelyan, George Macauley	14	247
	27	49
Trevelyan, Sir George Otto	14	242
	27	49
Trevet, Nicholas	27	80
Trivet, Nicholas	27	80
Tudor, Margaret	18	279
Tudor, Owen	13	238
Turner, Sharon	27	204
Tyler, Wat	27	234
Tyrconnel, Richard Talbot	27	245
Vane, Sir Henry	27	682
Vaughan, Robert	27	700
Vergil, Polydore	14	223
Victoria	28	68
Villiers, Duke of Buckingham	2	412
	4	665
Vinogradoff, Paul	14	253
Wakeman, Henry Offley	28	218
Waldstein, Sir Charles	28	224
Walker, George	28	227
Wallace, Sir William	24	433
	28	238
Walpole, Sir Robert	13	191
	28	545
Walpole, Sir Spencer	28	246
Warbeck, Perkin	14	101
	28	692
Weigall, Arthur Edward Pearse Brome	29	160
Wellesley, Sir Arthur Wellington	25	335
	29	780
Wellington, Arthur Wellesley, Duke of	29	180
Westwood, John Obadiah	29	228
Whalley, Edward	29	235
Wharton, Philip	29	236
Whitbread, Samuel	29	263
White, James	29	267
Whiteaves, Joseph Frederick	29	274
Whittington, Richard	29	287
Wilberforce, William	29	301
Wild, Jonathan	29	302
Wilde, William	15	325
Wilkes, John	29	319
William the Conqueror	13	176
	29	329
William I. the Lion	29	335
William II, Rufus	29	330
William III	29	330
William IV	29	331
William of Malmesbury	14	219
	29	336
William of Newburgh	29	336
William of Wykeham	29	337
Williams, John	29	341
Williams, Roger	22	708
	29	343
Wilson, Sir Daniel	29	357
Wimborne, Lord	14	336
	15	355
Wolsey, Thomas	14	101
	20	444
Wood, William Charles Henry	29	475
Wright, Thomas	29	570
York, Duke of	29	641
Young Chevalier	25	745
Young Pretender	25	745
Young, Thomas	14	174
	29	652
Yule, Sir Henry	29	675

Biographies — cont'd	Vol.	Page
ASSYRIA		
Ashur-bēl-nishishu	2	439
Assurbanipal	2	440
Assur-etil-ilāni	2	430
Assurnasirpal	2	429
	2	439
Bēl-Kapkapu	2	439
Esarhaddon	2	430
	2	440
	10	489
Merodachbaladan	2	429
Rassam, Hormuzd	20	798
	23	222
Sardanapalus	2	440
	24	297
Sargon	24	304
Sargon II	2	440
	24	304
Sennacherib	2	429
	2	440
	24	564
Shalmaneser	24	655
Shalmaneser I	2	429
	2	439
Shalmaneser III	2	429
	2	439
Shamshi-Adad III	2	429
Shamshi-Adad V	2	440
Tiglathpileser I	2	429
Tiglathpileser IV	2	440
Tukulti-Ninib I	2	429
AUSTRIA-HUNGARY		
Andrassy, Julius, Count	1	669
Andrassy, Julius, Count, (2d)	1	669
Andrew I	1	673
Andrew II	1	673
Andrew III	1	673
Anne of Austria	11	591
Arneth, Alfred, Ritter Von	2	311
	14	239
Arpad	2	324
Bach, Alexander	3	11
Bakacs, Thomas	3	58
Batthyanyi, Kasimir	3	342
Batthyanyi, Louis	3	343
Beer, Adolf	3	429
Bethlen, Gabriel	3	592
Bocskay, Stephen	4	143
Bormann, Eugen	4	276
Domanig, Karl	9	240
Eckhel, Joseph Hilary	9	545
Elizabeth, Empress	2	412
	10	247
Engel, Johann Christian von	10	335
Ennemoser, Joseph	10	391
Fényes, Alexius	11	118
Ferdinand, Archduke Francis	2	412
	27	220
Ferdinand I	11	119
Fessler, Ignaz Aurelius	11	152
	14	239
Fournier, August	11	550
Francis Joseph I (Emperor)	11	755
Francis Joseph I (King)	11	755
	28	391
Hammer-Purgstall, Joseph	13	664
Horváth, Michael	14	422
Hunyady, János	14	520
Joseph I	16	211
Joseph II	16	211
Kanitz, Felix Phillip	16	293
Khlesl, Melchior, or Klesel	16	392

Biographies — cont'd	Vol.	Page
Klapka, Gyorgy	16	469
Kossuth, Lajos	16	532
Kuranda, Ignaz	16	558
Ladislas, or Ladislaus I.	16	643
Ladislas IV.	16	643
Ladislas V	16	643
López, Martin	17	654
Maria Theresa	18	283
Matthias I, Hunyadi	18	444
Metternich, Clemens Wenzel Nepomuk Lothar	18	734
Pulszky, Franz Aurelius	22	799
Rudolf I	23	753
Rudolf II	23	753
Sickel, Theodor	14	239
Zapolya, John	29	688
BABYLONIA		
Banks, Edgar J	20	800
Botta, Paul Emil	4	315
	20	798
Delitzsch, Friedrich	8	623
	26	12
Fresnel, M. Fulgence	20	798
Gudea	2	438
Hammurabi	2	438
Koldeweg, Dr.	20	799
Layard, Austen Henry	17	157
	20	798
Loftus	20	798
Lugal-zag-gi-si	2	438
Nabonassar	2	440
Nabonidus	2	438
	19	677
Nâram-Sin	2	438
Nabopolassar	2	441
	19	677
Nebuchadnessar	20	34
	27	245
Nebuchadrezzar II	2	441
Nohl, Julius	20	798
Rassam, Hormuzd	20	798
	23	222
Rawlinson, Sir Henry	20	798
	23	237
Sargon I	2	438
Tiglathpileser I	2	439
BELGIUM		
Albert I	1	331
Cammaerts, Emile	5	266
Dachamps, Adolphe	8	558
Goblet, D'Alviella Eugène	12	743
Leopold I	17	305
Leopold II	17	305
Lettenhove	14	239
Ortelius, Abraham	18	254
Pirenne	14	239
Van der Essen, Léon	27	667
Wauters	14	239
BULGARIA		
Alexander I	1	365
Battenberg, Alexander	3	341
Ferdinand I	11	119
Stambuloff, Ex-Premier Stefan	2	412
BYZANTINE OR EASTERN EMPIRE		
Absimarus	1	52
Acropolita, Georgius	1	104
Anastasius I	1	625
Anastasius II	1	625
Andronicus I	1	677
Athenais	2	493
Basil I	3	307
Basil II	3	307

Biographies — cont'd	Vol.	Page
Cantacuzenus, John	5	528
Constantine IV, Flavius Constantinus	7	555
Constantine V	7	555
Constantine VI, Flavius Constantinus	7	555
Constantine VII	7	556
Constantine VIII	7	556
Constantine IX	7	556
Constantine X	7	556
Constantine XI, Palæologus	7	556
Eudocia	2	498
	10	564
Eudoxia	10	564
Gerland, Ernst Wilhelm Ferdinand	12	497
Irene	10	39
	15	322
Irene (Empress)	15	322
Isaac I	15	404
Isaac II	15	404
Julian, (Flavius Claudius Julianus)	16	242
Justin I	16	266
Justin II	16	266
Justinian	25	61
Justinian I	16	267
Justinian II	16	267
Lacaris, Theodore I	16	757
Leo I	17	296
Leo II	17	296
Leo III	17	296
Leo IV	17	297
Leo V	17	297
Leo VI	17	297
Leo Diaconus	17	298
Leo the Philosopher	3	307
Michael I, Rhangabe	19	11
Michael I, Rhagabe	19	11
Michael II, Balbus	19	11
Michael III	19	11
Michael IV	19	11
Michael V, Calaphates	19	11
Michael VI	19	11
Michael VII	19	11
Michael VIII, Palæologus	19	11
Michael IX, Palæologus	19	11
Nicephorus I	20	311
Nicephorus II, Phocas	20	311
Nicephorus III, Botaniates	20	311
Phranza, or Phranzes	22	20
Procopius	22	629
Pulcheria	22	794
Theodora	26	510
Tiberius Constantine	26	606
Zeno	29	699
Zoe	29	720
Zonaras, Joannes	29	724

CHINA

Biographies — cont'd	Vol.	Page
Alcock, Sir Rutherford	1	345
Burlingame, Anson	5	49
Hart, Sir Robert	13	733
Hay, John Milton	14	13
Hsuan Tung	14	462
Hung Hsiu-Ch' Üan	14	499
K'ang-Hi	16	291
K'ien-Lung	16	408
Kublai Khan	16	551
Lea, Homer	17	169
Pu-Yi	14	462
Sun-Yat-Sen	26	30
Sze-Ma Kwang	26	193
Tze-Hsi	27	248
Yao	29	613
Yau	29	613
Yung-lo	29	676

CUBA

Biographies — cont'd	Vol.	Page
Alvarado, Pedro de	1	459
Arrate y Acosta	2	327
Capote, Domingo Mendez	5	569
Cisneros - Betancourt, Salvador	6	698
Garcia y Iñiguez, Calixto	12	280
Lares, Amador de	16	748
López, Narciso	17	654
Maceo, Jose Rafael	18	45
Maceo, Antonio	18	45
Martí, José Julián	18	333
Saco, José Antonio	24	90
Velasquez, Diego de	27	721

DENMARK

Biographies — cont'd	Vol.	Page
Allen, Karl Ferdinand	1	415
Axelsen	2	682
Brun, Malte-Conrad	4	631
Brunn, Malte-Conrad	4	631
Canute IV, Saint	5	538
Caroline Matilda	5	648
Christian X, Carl Frederick Albert Alexander Vilhelm	6	600
Christian II	6	598
Christian III	6	599
Christian IV	6	599
Christian V	6	599
Christian VI	6	599
Christian VII	6	599
Christian VIII	6	600
Christian IX	6	600
Dyveke	9	471
Eric	10	474
Frederick I	12	31
Frederick II	12	31
Frederick III	12	31
Frederick IV	12	31
Frederick V	12	31
Frederick VI	12	31
Frederick VII	12	31
Frederick VIII	12	31
	13	31
Friedericia, Julius Albert	12	106
Höegh-Guldberg, Ove	14	308
Margaret	18	278
Ojler, The Dane	20	632
Petersen, Niels Matthias	21	671
Semiramis of the North	18	278
Steenstrup, Johann I. S.	14	239
	25	608
Struensee, Count Johann Friedrich von	25	742
Waldemar I	28	220
Worsaae	14	239

EGYPT

Biographies — cont'd	Vol.	Page
Aahmes I	1	2
Aahmes II	1	3
Al-Adhid	11	57
Alexander I	22	752
Al-Hakim	11	57
Allah, Obeid	11	57
Al-Mu'izz	11	57
Amasis I	1	464
Amasis II	1	464
Antiochus	22	751
Belzoni, Giovanni Battista	3	496
Birch, Samuel	3	724
Breasted, James Henry	4	253
Breasted, James Henry	4	453
	14	253
	14	256
	14	257
Edwards, Amelia Blandford	9	706

Biographies — cont'd	Vol.	Page
Epiphanes	22	751
Erman, Adolf	10	480
	14	257
Euergetes	22	751
Guieysse, Pierre Paul	13	533
Hussein Kamil Pasha	14	527
Ibrahim Pasha	14	618
Ismail I	15	414
Kifti (Ibn Al-Kifti)	16	410
Mehemet Ali	18	595
Milo, Titus Annius	19	132
Mohammed Ali	18	595
	19	292
Nectanebo I	20	38
Nitocris	20	371
Osymandyas	21	39
	28	712
Pepi I	21	563
Perdiccas	21	573
Petrie, William Matthew Flinders	21	677
Phiops	21	563
Ptolemy	22	750
Ptolemy Alexander II	22	752
Ptolemy I	22	750
Ptolemy II	22	750
Ptolemy III	22	750
Ptolemy IV	22	751
Ptolemy V	22	751
Ptolemy VI	22	751
Ptolemy VII	22	751
Ptolemy VIII	22	751
Ptolemy IX	22	752
Ptolemy X	22	752
Ptolemy XI	22	752
Ptolemy XII	22	752
Ptolemy XIII	22	752
Rameses II	23	202
Rameses III	23	202
Saladin	24	176
	27	214
Sethos I	24	607
Thothmes I	26	590
Thothmes II	26	590
Thothmes III	26	590
Zabeïr, Rahama	29	718
Zerah	29	708

FRANCE

Biographies — cont'd	Vol.	Page
Adhemar de Chabannes	1	137
Adrets, Baron des, Francis de Beaumont	1	153
Aiguillon, Armand de Vignerot Duplessis Richelieu	1	272
Albret, Jeanne d'	1	340
Amboise, Georges d'	1	473
Ancre, Concino Concini, Marshal and Marquis d'	1	655
André, Saint Jacques d'Albon	1	671
Anne of Austria	11	591
Antraigues, Emanuel Delaunay, Comte d'	2	47
Argenson, Marc René	2	195
Arnauld family	2	309
Arthur, Count Joseph of Gobineau	14	234
Attila	2	524
	11	577
Aubriot, Hugues	2	530
Aubry De Montdidier	2	531
Audley, Sir James	2	536
August Mariette	20	794
Augusta	1	239
Augustus, Philip	11	583
	13	178
	21	741
	27	214

Biographies — cont'd	Vol.	Page
Aulard, François Victor Alphonse	2	551
	14	246
Aumale, Henri Eugène Philippe Louis d'Orleans, Duke of	2	552
Avenel	14	252
Avezac De Castera Macaya, Marie Armand Pascal d'	2	677
Aymon	2	684
Bachelet, Jean Louis Theodore	3	16
Bagnères-De-Bigorre	3	42
Bagnères-De-Luchon	3	42
Baluze, Etienne	3	124
Barante, Amable Guillaume Prosper Brugière, Baron de	3	228
	14	233
Barbaroux, Charles Jean Marie	3	231
Barbés, Armand	3	237
Barbié Du Bocage, Jean Denis	3	237
Barère De Vieuzac, Bertrand	3	246
Barnave, Antoine Pierre Joseph Marie	3	265
Barrès, Maurice	3	277
	14	237
Barthélemy, Jean Jacques	3	289
Bassano, Hugues Bernard Maret, Duc de	3	317
Bassville, Nicolas Jean Hugon de	3	319
Bastide, Jules	3	323
Baucher, François	3	347
Baudin Des Ardennes, Charles	3	348
Bausset, Louis François	3	351
Bayle, Pierre	3	364
	14	244
Beaufort, Louis de	14	244
Beauharnais, Eugène	3	390
	19	698
Beauharnais, Hortense Eugenie	3	390
Beauharnais, Josephine	19	696
Bégon, Michel	3	444
Bélmont, Charles	14	246
	14	247
Berger, Philippe	3	545
Berry, Carolina Ferdinanda Louisa, Duchesse de	3	578
Berry, Charles Ferdinand, Duc de	3	578
Berryer, Antoine Pierre	3	579
Bethencourt, Jean de	3	590
Beule, Charles Ernest	3	597
Bignon, Louis Pierre Edouard	3	698
Billaud-Varenne, Jacques-Nicolas	3	704
Biron, Baron de	4	9
Biron, Duc de	4	9
Blacas, Pierre Louis Jean Casimir	4	30
Blanche of Bourbon	4	60
Bodin, Jean	4	144
	14	224
Boissy D'Anglas, François Antoine	4	176
Bolo, Paul	4	193
Bolo Pasha, Paul	4	193
Bonaparte, Charles Louis Napoleon	19	701
Bonaparte, Joseph	4	205
	19	698
Bonaparte, Letitia Ramolino	4	205
Bonaparte, Louis	4	205
Bonaparte, Lucien	4	206
Bonaparte, Napoleon	4	208
	10	32
	11	593
	11	595
	14	286
Bonaparte, Prince Roland	4	207
Bonchamp, Charles Melchior Artus	4	209
Bonnechose, François Paul Emile Boisnormand de	4	219
Bordier, Henri Leonard	4	268
	14	253
Borghese, Camillo Filipo Ludovico	4	269
Borghese, Marie Pauline	4	270
Botta, Carlo Giuseppe Guglielms	4	314
Botta, Paul Emile	2	433
	4	315
Bouffiers, Stanislaus, Chevalier de	4	323
Bougainville, Louis Antoine de	4	323
Bouillé, François Claude Amour	4	325
Boulainvilliers, Henri de	4	327
Boulanger, Georges Ernest Jean Marie	4	327
	11	609
Bourbon, Antoine de	4	346
Bourbon, Charles	4	346
Bourbon, Constable de	4	346
Bourbon l'Archambault	4	348
Bourbon, Louis Henri	4	346
Bourdon De L'oise, François	4	349
Bourrienne, Louis Antoine Fauvelet de	4	353
	19	696
Brantôme, Pierre de Bourdeille	4	416
Bréche De Roland	4	456
Breteuil, Louis Charles Auguste le Tonnelier	4	470
Brinvilliers, Marie Madeleine Marguerite d'Aubray	4	543
Brueis, François Paul	4	628
	19	697
Buache, Philippe	4	651
Buchon, Jean Alexandre	4	664
Buonaparte, Napoleon	4	203
Burgundy, Louis	5	42
Busenbaum, Hermann	5	72
Bussi, Louis de Clermont D'Amboise	5	75
Cadoudal	5	135
	11	601
Calmette, Gaston	5	228
Cambon, M. Paul	27	73
Camus, Armand Gaston	5	287
Capefigue, Baptiste Honoré Raymond	5	549
Capet, Hugh	4	346
	4	347
	14	477
	21	470
Capet, Louis	5	553
Carnot, Marie François Sadi	2	412
	5	644
	11	602
Carrier, Jean Baptiste	5	670
Cartouche, Louis Dominique	5	686
Cassagnac, Bernard-Adolphe Granier de	5	706
Cassagnac, Paul-Adolphe Mare Prosper Granier de	5	706
Catherine de Medici	4	346
	6	55
Cavalier, Jean	5	266
	6	135
Chabot, François	6	240
Chambord, Henri C. F. M. D	6	266
Champollion, Jean François	6	276
	10	10
	14	174
	14	257
	20	794
Charlemagne	4	346
	5	552
	6	318
	10	36
	10	37
Charles The Bold	11	587
Charles of Burgundy	11	587
Charles The Hammer	11	579
Charles I (France)	6	312
Charles IV	6	312
Charles V	6	312
Charles VI	6	313
Charles VII	6	313
	16	149
Charles VIII	6	313
Charles IX	6	314
Charles X	6	314
Charlevoix, Pierre François Xavier de	6	333
	14	228
Charost, Armand Joseph de Bethune	6	335
Charras, Jean Baptiste Adolphe	6	336
Chevreuse, Marie de Rohan Montbazon	6	432
Childebert	6	470
Childebert I	6	470
Childebert II	6	470
Chilperic I	6	512
Chilperic II	6	512
Chimay, Jeanne Marie Ignace Thérèse de Cabarrus, Princesse de	6	513
Cinq-Mars, Henri Coiffier de Ruze, Marquis De	6	687
Cléry, Jean Baptiste	7	91
Cloots, Jean Baptiste	7	124
Clotilda, Saint	7	129
Cloud, Saint, or Clodoald	7	129
Clovis	7	135
	11	577
Clovis II	7	135
Clovis III	7	135
Cœur, Jacques	7	209
Cohen, Henri	7	215
Colbert, Jean Baptiste	7	233
Collot D'Herbois, Jean Marie	7	273
Comines, Philippe de	7	362
Commines, Philippe de	14	218
Comte de Chambord	11	608
Comynes, Philippe de	7	362
Condé	7	476
Condé, Henri II de Bourbon	7	476
Condé, Louis I de Bourbon	7	476
Condé, Louis II de Bourbon	7	476
Condé, Louis Joseph de Bourbon	7	477

Biographies — cont'd	Vol.	Page
Constans, Jean Antoine Ernest	7	553
Corday D'Armans, Marie Anne Charlotte	7	686
Coucy, Raoul, or Renaud, Châtelain de	8	91
Coulanges, Fustel de	8	94
	14	253
Coulanges, Numa Denis Fustel de	8	94
Couthon, Georges	8	128
Damiens, Robert François	8	431
Danton, Georges Jacques	8	466
D'Anville, Jean Baptiste Bourignon	18	254
Darboy, Georges, Archbishop of Paris	2	412
	8	471
Daudet, Ernest Louis Marie	8	493
D'Aumont, Antoine	2	553
D'Aumont, Jacques	2	553
D'Aumont, Jean	2	553
D'Aumont, Louis Marie Victor	2	553
D'Aumont, Louis Marie Céleste De Vienne	2	553
Daunou, Pierre Claude François	8	494
	14	236
Débidour, A.	14	246
	14	247
Decazes, Elie, Duc	8	557
De La Blache, Vidal	8	604
Delcassé, Théophile	8	617
	27	175
Delisle, Guillaume	8	622
Delorme, Marion	8	625
Déroulède, Paul	8	715
	14	237
Deville, Jean Achille	9	39
Diana of Poitiers	4	326
	9	70
Didron, Adolphe Napoléon	9	93
Dieulafoy, Auguste Marcel	2	433
	9	105
Dieulafoy, Jeanne Rachel Mayre	2	433
	9	105
D'orsay, Alfred Guillaume Gabriel	9	269
Du Barry, Jeanne Bécu	9	368
Dubos, Jean Baptiste	14	244
Dubost, Antonin	9	375
Du Cange, Charles du Fresne	9	376
	14	243
Duchesne, André	9	377
	14	236
Duke of Brunswick	11	597
Dumont, Albert	9	398
Dupont De Nemours, Pierre Samuel	9	413
Durkheim, Émile	9	426
	14	254
Duruy, Jean Victor	14	247
Duruy, Victor	9	427
Duvergier De Hauranne, Prosper	9	444
Edward III	9	703
	11	586
Eleanor of Aquitaine	10	59
Elizabeth of Bavaria	15	405
Elizabeth, Madame	10	247
Enghien, Louis Antoine Henri de Bourbon, Duke of	10	337
Epernon, Jean Louis de Nogaret, Duc d'	10	412
Estampes, Anne de Pisseleu	10	519
Etampes, Anne de Pisseleu	10	519
Estrées, Gabrielle d'	10	526
Eudes of Paris	20	585
Eugénie	10	571
Fagniez, Gustave Charles	10	710
	14	237
Faguet, Émile	10	711
	14	247
	14	254
Faidherbe, Louis Léon César	10	712
Faillon, Michel Etienne	10	713
Fain, Agathon Jean François	10	713
Falloux, Frédéric Alfred Pierre	10	734
Fauche-Borel, Louis	11	61
Fauriel, Claude C.	11	65
	14	237
	14	246
Favre, Gabriel Claude Jules	11	70
Fesch, Joseph	11	152
Filon, Auguste	11	211
Flach, Geofroi Jacques	11	307
Floquet, Pierre Amable	11	362
Fouché, Joseph	11	532
Fouchet, Jean A. J.	11	532
Fouquet, Nicolas	11	548
Fouquier-Tinville, Antoine Quentin	11	548
Fournier L'Héritier, Claude	11	550
Français, Antoine	11	572
France, Joseph	11	572
Francis I	11	755
Francis II	11	755
Fredegar, or Fredegarius Scholasticus	12	30
Fresnel, M. Fulgence	20	798
Froissart, Jean	12	120
Frontenac, Louis de Buade	12	123
Fustel De Coulanges, Numas Denis	12	203
Gaffarel, Paul (Louis Jacques)	12	224
Garde, Seigneur de la	14	461
Garnier, Francis	12	69
Gérard, Balthasar	12	493
Girard, Paul	12	663
Godfrey of Bouillon	4	326
	12	746
Gontaut, Armand de	4	9
Gontaut, Charles de	4	9
Guadet, Marguerite Elie	13	508
Guises	13	541
	14	482
Guizot, François Pierre Guillaume	13	542
Guillaume De Nangis	13	536
Guillaume Le Breton	13	536
Guillotin, Joseph Ignace	13	538
Guynemer, George	7	430
Halévy, Joseph	13	635
Hanotaux, Gabriel	13	681
	14	246
Haussmann, Georges Eugène	13	761
Hébert, Jacques René	14	57
Henrietta	14	97
Henry of Bourbon	11	588
Henry of England	11	583
Henry of Navarre	11	589
	14	102
Henry I	14	102
Henry II	14	102
Henry III	2	412
	14	102
Henry IV	2	412
	14	102
	14	281
Herault De Sechelles, Marie Jean	14	115
Homann, Johann Baptist	18	254
Hortense	18	203
Hotman, François	14	235
Houdetot, Elizabeth Françoise Sophie de la Live de Bellegrade	14	441
Houssaye, Henri	14	448
Hozier, Charles René D'	14	462
Hozier, Louis Pierre	14	462
Hozier, Pierre d'	14	461
Hugo, Victor Marie	14	480
Isabeau	15	405
Isabella	15	405
Janet, Paul	14	254
	15	612
Jaurès, Jean L.	2	412
	11	628
	14	252
Joan of Arc, Saint	11	189
	11	586
	15	754
John the Fearless	16	163
John II	16	156
Jomard, Edme François	16	193
Josephine, Empress	16	212
Kératry, Auguste Hilarion de	16	375
Kératry, Count Emile de	16	375
Kerlérec, Louis Billouart Chevalier de	16	378
La Bruyère, Jean de	16	567
La Chalotais, Louis René de Caradeuce de	16	568
La Valette, Antoine Marie Chamans, Count de	16	585
La Vallière, Louise Françoise de la Baume le Blanc de	16	585
Las Cases, Emmanuel Augustin Dieudonné Marin Joseph, Marquis	16	756
Laborde, Léon Emmanuel	16	621
Lachaise, François d'Aix de	16	633
	21	574
Lafarge, Marie Cappelle	16	647
Lajard, Jean Baptiste Félix	16	656
Lally-Tollendal, Thomas Arthur	16	663
Lamballe, Marie Thérèse Louise de Savoie-Carignano, Princesse de	16	671
Lanessan, Jean Antoine de	16	715
Langlois, C.	14	246
Lanjuinais, Jean Denis	16	733
Lavisse, Ernest	14	246
	17	120
Le Bas, Philippe	17	161
Le Bel, Philip	21	741
Le Blant, Edmond Frédéric	17	161
Le Chapelier, Isaac René Guy	17	162
Le Hardi, Philip	21	741
Le Long, Philip	21	742
Le Play	14	252
Lechevalier, Jean B.	17	209
Ledrain, Eugène	17	215
Lefranc, Abel Jules Maurice	17	233

Biographies — cont'd	Vol.	Page
Legendre, Louis	17	241
Leger, Louis	14	246
	17	241
Legrain, Georges Albert	17	256
Lemonnier, Henri	14	246
Lenclos, Anne	17	284
Lenormant, Charles	17	287
Lenormant, François	17	287
Leroy-Beaulieu, Henri Jean Baptiste Anatole	17	313
Leroy-Beaulieu, Pierre Paul	14	252
	14	253
	17	313
Leszczynska, Maria	18	282
Levasseur, E	14	247
Lévy-Bruhl, L	14	254
L'Isle, Guill de	18	254
Lisle, Rouget de	18	321
Longueville, Anne Geneviève de Bourbon-Conde	17	448
Lot, Ferdinand	14	246
Louis I	17	673
Louis II	17	673
Louis III	17	673
Louis IV	17	673
Louis V	17	673
Louis VI	17	673
Louis VII	17	673
Louis VIII	17	673
Louis IX	17	674
Louis X	17	674
Louis XI	11	192
	17	674
Louis XII	17	674
Louis XIII	11	590
	17	674
Louis XIV	11	591
	17	675
	24	617
Louis XV	11	592
	17	676
Louis XVI	11	592
	11	596
	17	676
Louis XVII	17	677
Louis XVIII	11	606
	17	677
Louis Philippe	16	245
	17	678
Louis, Saint	17	674
Louisa, Archduchess Maria	17	699
Louvois, François Michel Le Tellier	17	693
Luce, Auguste Siméon	17	715
Luchaire, Achille	17	716
Mabillon, Jean	14	236
	14	243
	18	2
Mac Mahon, Marie Edme Patrick Maurice de	11	608
	18	81
Magni, Girolamo	15	378
Maintenon, Françoise d'Aubigné	18	151
Malet, Claude Francois de	18	165
Mallet, Claude	19	739
Marat, Jean Paul	18	262
Marcabrun	18	267
Marck, William de la	4	326
Margaret of France	18	278
Margaret of Navarre	18	278
Margaret of Valois	18	278
Margry, Pierre	18	281
Maria Louisa	18	282
Marie	18	203
Marie Anne	18	203
Marie Antoinette	11	593
	17	676
Marie Antoinette	18	281
Marie of Medicis	11	589
	18	285
Mariette, Auguste Edouard	18	286
Martel, Charles	6	327
	11	579
	11	617
	12	19
	14	140
Martin, Henri	14	237
Maspero, Sir Gaston Camille Charles	18	392
	20	795
Masson, Frédéric	18	417
Maurepas, Jean Frédéric, Phélypeaux	18	449
Mazarin, Cardinal Jules	17	675
	18	420
	24	616
Mazarini, Giulio	18	470
Medici, Catherine de	11	588
	14	482
Médicis, Marie De	18	285
Menant, Joachim	18	621
Michaud, Joseph François	19	14
Michel, Francisque Xavier	19	15
Michel, Louise	19	15
Michelet, Jules	14	233
	19	17
Mignet, François Auguste Marie	19	47
Milfort, Le Clerc	19	58
Mirabeau, Gabriel Honore Riquetti	19	216
Molé, Louis Matthieu	19	311
Monod, Gabriel	14	247
	14	252
Montalembert, Charles Forbes de Tyron	19	382
Montausier, Charles de Sainte-Maure	19	396
Montespan, Françoise Athenais	19	402
Montfaucon, Bernard de	19	406
Montijo, Eugénie Marie de	19	701
Montjoie, Saint Denis	19	411
Montlosier, François Dominique Reynaud	19	412
Montmagny, Charles Jacques Huault de	19	412
Montpensier, Anne Marie Louise d'Orleans	19	413
Monts, Pierre du Guast	19	419
Mornay, Philippe de	19	466
Murat, Napoléon Lucien Charles, Prince of Ponte Corvo	19	603
	19	696
Napoléon, Brienne	4	534
Napoleon, Eugène Louis Jean Joseph	19	702
Napoleon, Joseph Charles Paul	19	702
Napoleon, Louis	11	607
Napoleon, Prince Charles	4	207
Napoleon, Prince Victor	4	207
Napoleon I	19	695
Napoleon II	19	701
Napoleon III	11	608
	19	701
Navarre, King of	4	346
	14	482
Ney, Michel, Marshal	19	700
	20	293
Nithard	20	371
Noailles, Anne Jules De	20	382
Noailles, Antoine De	20	382
Nogaret, Guillaume de	20	389
Odo of Paris	20	585
Oppert, Jules	2	434
	20	716
Orléans, Hélène Louise Elizabeth	20	815
Orléans, Jean Baptiste Gaston	20	815
Orléans, Louis Philippe Joseph	20	815
Orléans, Louis Philippe Robert	20	815
Orléans, Philippe	20	816
Paris, Louis Albert Philippe D'Orleans	21	300
Patterson - Bonaparte, Elizabeth	21	408
Pepin	21	563
Pepin l'Heristal	4	346
Pepin, The (Short)	5	552
	21	563
Pepin the Younger	21	563
Perrot, Georges	21	606
Persigny, Jean Gilbert Victor Fialin	21	630
Pétion de Villeneuve, Jerôme	21	672
Philip the Fair	11	585
Philip the Bold	21	745
Philip the Good	21	745
Philip of Valois	11	586
	21	742
Philip I	21	740
Philip II	21	741
Philip III	21	741
Philip IV	21	741
Philip V	21	742
Philip VI	21	742
Philippe, Louis	11	607
Picquart, Georges	22	69
Pierre de Courtenay	4	347
Pippin II	21	563
Place, Victor	22	139
Polignac, Melchior De	22	304
Pompadour, Jeanne Antoinette Poisson	22	342
Quatremère De Quincy, Antoine Chrysostome	23	70
Quatremère, Etienne Marc	23	70
Rambaud, Alfred N	14	246
	23	200
Rambouillet, Catherine	23	201
Rapin De Thoyras, Paul	23	218
Raspail, François Vincent	23	221
Ravailiac, François	23	232
Raymond VI	23	239
Raymond VII	23	239
Raynal, Guillaume Thomas	14	228
Reichstadt, Duke of	23	329
Reinach, Solomon	14	254
	23	333
Rémusat, Claire Elizabeth Jeanne Gravier de Vergennes	23	367
Renée of France	23	375
Retz, Jean François Paul de Gondi	23	437
Richelieu, Armand Jean du Plessis de, Cardinal	23	496
Robert, Duke of Normandy	23	566
Robespierre, Maximilien François Marie Isidore	23	574
Rochette, Désiré Raoul	23	593
Roland De La Platière, Manon Jeanne Philipon	23	633
Rollin, Charles	23	636
Rougé, Oliver Charles Camille Emmanuel	23	719
Saint-Germain, Count of	24	129
Sanson, Nicolas	18	254

Biographies — cont'd	Vol.	Page
Scaliger, Joseph Justus.	14	224
	24	348
Seignobos, C.	14	246
Sorel, Albert	25	263
Texier, Charles Félix Marie	26	467
Theobald I.	26	551
Thierry, Amédée Simon Dominique	26	551
Thiers, Louis Adolphe..	11	608
	26	552
Thou, Jacques Auguste de	14	224
	19	739
	26	590
Tocqueville, Alexis de...	14	253
	26	665
Toussaint, François Dominique	19	698
	26	772
Turgot, Anne Robert Jacques	27	178
Vandal, Louis Jules Albert	27	679
Vendôme, Duke of	4	346
	27	726
Vergniaud, Pierre Victurnien	28	15
Veudreuil De Cavagnal, Pierre François de Rigaud	27	699
Vidocq, Eugène Francois	28	77
Villehardouin, Geoffroi de	28	91
Vivien de Saint-Martin, Louis	28	156
Vogüé, Charles Jean Melchior	28	164
Wallon, Henry Alexandre	28	242
Yves D'Evreux, Pierre..	29	678
Zeller, Jules Sylvain....	29	697

GERMANY

Biographies — cont'd	Vol.	Page
Abeken, Heinrich	1	34
Abelin, Johann Philipp.	1	36
Adam of Bremen	1	117
Adolph of Nassau	1	149
Adolphus of Nassau	1	149
Agricola, Johann	1	242
Alaric I.	1	310
Alaric II.	1	310
Albert Azo II.	4	637
Albert, Peter Paul	1	333
Albert the Great	4	637
Albert I.	1	332
	1	333
	2	412
Andree, Karl	1	672
Andree, Richard	1	672
Archenholz, Johann Wilhelm von	2	166
Arminius	2	272
Arndt, Wilhelm	2	310
Arnulf	2	320
Aschbach, Joseph	2	380
Attila	2	524
	11	196
August, Emil Leopold..	2	542
Augusta, Marie Luise Katharina	2	542
Augusta Victoria	2	542
Bach, Johann Sebastian.	3	12
	10	41
Bachtold, Jakob	3	17
Ballestrem, Franz Xaver, Count von	3	99
Barbarossa, Frederick..	12	31
	14	278
	27	214
Barth, Paul	3	288
	14	2.4
Bartholdy, Jakob Salomo	3	290
Baumgarten, Hermann..	3	350
Baumgarten, Moritz Julius Maximilian Paul Maria	3	350
Becker, Karl Friedrich..	3	404
	3	405
Becker, Oskar	3	405
Becker, Philip Johann..	3	405
Becker, Wilhelm Adolf..	3	405
Behm, Ernst	3	448
Beitzke, Heinrich Ludwig	3	450
Benndorf, Otto	3	518
Bergenroth, Gustav Adolf	3	545
Berghaus, Heinrich	3	546
Berghaus, Hermann	3	546
Bernauer, Agnes	3	571
Bernheim, E.	14	246
Berthelot, A.	14	246
Besold, Karl	3	607
Biebermann, Gustav Woldemann	3	688
Bismarck, Otto von	4	17
	11	756
	13	696
	14	291
	19	756
Boniface VIII.	1	333
Bopp, Franz	4	261
Bötticher, Karl	4	316
Böttiger, Karl August..	4	316
Braun, August Emil	4	420
Braun, Julius	4	421
Bredow, Gabriel Gottfried	4	459
Bresslau, Harry	4	470
Brieger, Johann Friedrich Theodor	4	534
Brühl, Heinrich	4	629
Brunswick - Luneburg, Karl Wilhelm Ferdinand	4	638
Bulle, Konstantin	5	14
Büsching, Anton Friedrich	5	72
Caprivi, George L.	5	572
	13	696
Caro, Jakob	5	645
Celtis, Conrad	14	234
Charles Augustus	6	326
Charles Friedrich August Wilhelm	6	327
Charles IV.	6	320
Charles V	6	321
Charles VI.	6	322
Civilis, Julius	7	20
Conrad I.	7	535
Conrad II.	7	535
Conrad III.	7	535
Conrad IV	7	535
Conrad V, or Conradin of Swabia	7	535
Conze, Alexander Christian Leopold	7	619
Dahlmann, Friedrich Christoph	8	395
Dahn, Felix	8	395
Dalberg, Karl Theodor, Baron von	8	413
Dörpfeld, Wilhelm	9	267
Droysen, Johann Gustav	14	235
	14	252
Duller, Eduard	9	392
Duncker, Maximilian Wolfgang	9	402
	14	235
Eckert (Friedrich Eduard), Max	9	545
Egelhaaf, Gottlob	9	721
Eginhard	9	729
Engelbrecht, Theodor Heinrich	10	335
Erdmannsdörffer, Bernhard	14	245
Erman (Johann Peter), Adolf	10	480
Ernst, August	10	481
Ernst of Zell	4	637
Ernst I.	10	481
Ernst II.	10	481
Ernst II, Augustus Charles John Leopold Alexander Edward	10	481
Eucken, Rudolph	10	562
	14	259
Fahne, Anton	10	711
Faust, Dr. John	11	65
Faustus, Dr. John	11	65
Ferdinand	11	119
Ferdinand I.	11	119
Ferdinand II.	11	120
Ferdinand III.	11	120
Fischer, Joseph	11	264
Flathe, Heinrich Theodor	11	336
Flegel, Eduard Robert..	11	343
Forchhammer, Peter Wilhelm	11	464
François, Kurt von	12	3
Frantz, Konstantin	12	19
Frederick Charles	12	36
Frederick I.	12	30
	12	33
Frederick II.	11	592
	12	33
	14	278
	25	783
Frederick III.	12	31
	12	35
Frederick William I.	12	37
Frederick William II.	12	37
Frederick William III..	12	37
Frederick William IV..	12	38
Freytag, Gustave	12	99
	14	252
Fritz, Unser	12	114
Fürstenberg, Prince Maximilian Egon Zu..	12	200
Furtwängler, Adolf	12	200
Geiger, Ludwig	12	358
Gerhard, Eduard	12	495
Gero	12	622
Gervinus, Georg Gottfried	12	625
Gierke, Otto	14	253
	14	254
Goldast, Melchior	14	234
Gomperz, Theodor	14	254
Graetz, Heinrich	13	105
Gregorovius, Ferdinand.	13	447
Grotefend, Georg Friedrich	2	434
	13	490
Grünhagen, Kolmar	13	505
Harden, Maximilian (Felix Ernst)	13	696
Hecker, Friedrich Karl Franz	14	61
Heeren, Arnold Hermann Ludwig	14	65
Henry the Proud	4	637
Henry I.	14	103
Henry II.	14	103
Henry III.	14	103
Henry IV.	14	104
	27	215
Henry V	14	104

Biographies — cont'd	Vol.	Page
Henry VI	14	104
	14	278
Henry VII	14	104
Hertogenbosch	4	379
Hutten, Philip von	14	530
Hutton, Ulrich von	14	223
Inama-Sternegg	14	252
Jahn, Friedrich Ludwig	15	596
Julius, Duke of Brunswick	16	243
Katte, Hans Hermann von	16	317
Kaufmann, Carl Maria	16	319
Kekulé von Stradonitz, Reinhard	16	337
Ketteler, Clemens August Baron von	16	383
Kiderlen-Waechter, Alfred von	16	401
Kiepert, Heinrich	16	408
Klopp, Onno	16	474
Knyphausen, Wilhelm von	14	159
	16	501
Köhler, Ulrich	16	508
Koldewey, Robert	2	433
Konrad Von Hockstaden	16	519
Konrad Von Marburg	16	519
Körte, Christoph E. Gustav	16	530
Koser, Reinhold	14	245
	16	591
Kossinna, H. Gustaf	16	532
Krantz, Albert	14	223
Lambert Von Hersfeld	16	673
Lamprecht, Karl	14	252
	16	683
Lange, Henry	16	718
Lasaulx, Ernest von	16	757
Leibnitz, Gottfried Wilhelm	14	235
	14	244
	17	261
Lenz, Max	14	245
Leo, Heinrich	14	233
	14	297
	17	297
Lepsius, Karl Richard	17	311
Louis (King)	17	672
Luise, Auguste Wilhelmine (Queen)	17	734
Marcks, Erich	14	245
Matthias	18	444
Maurice of Nassau	18	450
Maximilian I, Emperor	14	234
	18	458
Mehring, Franz	18	595
Meistermann, Barnabas Francis Joseph	18	598
Meyer, Eduard	19	2
Michaelis, Adolf	19	13
Mohl, Julius	19	308
	20	798
Mommsen (Christian Matthias), Theodor	14	245
	19	333
Möser, Justus	14	244
	19	499
Müller, Karl Otfried	19	558
Münchhausen, Hieronymus Karl Friedrich, Baron	19	563
Munzer, Thomas	19	598
Nachtigal, Gustav	19	678
Neander, Johann A. W.	14	246
	20	22
Neuhof, Theodor von	20	98
Niebuhr, Barthold Georges	14	245
	20	332
Nietzsche, Friedrich	20	335
Nissen, Heinrich	20	370
Nordalbingen, Bernard von	3	303
Otho of Freising	21	42
Penck, Albrecht	21	499
Perthes, Friedrich Christoph	21	642
Pertz, G. H.	14	235
Petermann, August Heinrich	21	662
Pflugk-Harttung, Julius Albert G. von	21	701
Philippson, Martin	21	759
Philip The Magnanimous	21	745
Prutz, Robert Eduard	22	723
Pufendorf, Samuel	14	223
	22	792
Quidde, Ludwig	23	89
Red Prince	12	36
Ranke, Leopold von	14	235
	14	245
	23	212
Raumer, Friedrich Ludwig Georg von	23	231
Reuchlin, Johann	23	437
Rhenanus, Beatus	14	223
Riedesel, Frederica Charlotte Louisa	23	513
Ritter, Karl	23	544
Ritter, Moriz	14	245
Rösler, Augustin	23	701
Rotteck, Karl Wenceslaus Rodecker von	23	718
Rudolf I	23	753
Schiller, Friedrich	14	232
Schliemann, Heinrich	20	804
	24	380
Schwarzenberg, Adam of	24	410
Sigismund (Emperor)	24	798
Spiessheimer, Johannes	14	234
Stein, Heinrich Friedrich Karl	14	235
	25	611
Stein, Ludwig	14	254
Stern, Alfred	14	246
Sybel, Heinrich von	14	235
Treitschke, Heinrich von	14	235
	16	100
	27	37
Trenck, Baron Friedrich von der	27	42
Treu, George D. C.	27	49
Turmair, Johannes	14	223
Tuttle, Herbert	27	212
Waitz, Georg	14	235
	14	245
Waldseemüller, Martin	28	223
Wappæus, Johann Eduard	28	256
Weber, Georg	29	144
Welcker, Friedrich Gottlieb	29	176
Wenceslas	29	191
Wilhelm, Heinrich Albert	14	105
Wilken	14	235
William (Friedrich Wilhelm Viktor August Ernst)	29	329
William I	29	332
William II (Friedrich Wilhelm Victor Albert)	12	519
	29	332
Winckelmann, Johann Joachim	29	377
Winckler, Hugo	2	434
	20	805
Wolf, G.	14	246
Zeller, Martin	29	695
Zeiller, Martin	29	695
Zell, Karl	29	697
Zeuss, Johann Kaspar	29	706
Zimmerman, Wilhelm	29	710
Zittel, Karl Alfred von	29	716
AFRICA		
Diaz, Bartholomew	11	195
Dost Mohammed Khan	9	271
Flacourt, Etienne de	11	307
Juba	16	227
Ranavalo III	23	206
Ranavalona III	23	206
Theodore II	26	510
Yakub Khan	29	606
ANCIENT		
Alexander the Great	1	368
	24	540
Antiochus III (The Great)	2	36
	24	540
Antiochus IV (Epiphanes)	2	36
	24	540
Antiochus V (Eupator)	2	36
	24	540
Antiochus VI	2	36
	24	540
Antiochus VII (Sidetes)	2	36
	24	540
Antiochus VIII (Grypus)	2	36
	24	540
Antiochus X (Eusebes)	2	36
	24	540
Antiochus XI (Epiphanes)	2	36
	24	540
Antiochus XII (Dionysus)	2	36
	24	540
Antiochus XIII (Asiaticus)	2	36
	24	540
Arcadius	2	149
Arsinoë	2	334
Ascanius	2	378
Balas, Alexander	24	540
Deioces	8	601
Demetrius I (Sotor)	8	637
	24	540
Demetrius II (Nicator)	8	637
	24	540
Demetrius III (Eucerus)	24	540
Phocion	21	785
Seleucus I (Nicator)	24	540
Seleucus II (Callinicus)	24	540
Seleucus III	24	540
Seleucius IV (Philopator)	24	540
Seleucus V	24	540
Seleucus VI (Epiphanes)	24	540
Sinon	25	42
Tigranes	24	540
	26	623
ARABIA		
Aaron The Orthodox	10	38
Abu-Bekr	1	55
Abulfeda, Ismail Ibn Ali	1	57
Al-Hasan	11	57
Al-Husein	11	57
Al-Muhsin	11	57
Al Raschid, Haroun	10	38
Athir	14	219
Edrisi, Abu-Abdallah Mohammed	14	669
Feisul	28	413
Haroun-Al-Rashid	13	744
Harun-Al-Rashid	13	744
Hussein Ibn Ali	28	413
Ibn Al-Kifti	14	617

Biographies — cont'd	Vol.	Page
Ibn Khaldun, Abd Al Rahman	14	617
Idrisi, Abu-Abdallah Mohammed	14	669
Khaldun, Ibn	14	219
Khallikan, Ibn	14	219
Mas'udi	14	219
	18	421
Mokaddasi	19	310
Musa, Ibn Nusair	19	613
Mutan Abbi	19	655
Rhazes	23	455
Tabari	14	219
	26	196
Yalya	10	38
ARMENIA		
Artasires	2	347
Artavasdes	2	347
Tigranes I.	26	623
GREECE		
Æschylus	1	196
	13	386
Agesilaus	1	236
Alexander the Great	1	368
	13	374
	14	269
Alcibiades	1	344
	13	373
Anaxarchus	1	651
Anaximenes of Lampsacus	1	651
Andronicus II.	21	133
Andronicus III.	21	133
Antony	1	108
Archimedes	22	40
Aristides the Just	2	236
Aristobulus of Cassandria	2	237
Aristogiton	13	711
Arrianus, Flavius	2	329
Artemisia	2	348
Aspasia	2	403
Atticus Herodes, Tiberius Claudius	2	524
Automedon	2	643
Bozzaris, Marcos	4	378
Brasidas	4	417
	13	373
Byron, George Gordon	5	100
Callicratidas	5	227
	13	373
Callisthenes	5	228
Callistratus	5	228
Capo D'Istria, Wannes Antonios	5	569
Chilon	6	512
Cimon	6	678
	21	584
Chrysostom, Dion	6	649
Clearchus	7	78
Cleisthenes, or Clisthens	7	82
Cleomenes	7	88
Cleon	7	88
	13	373
Cleopatra	1	108
	7	88
Codrus	7	198
	13	370
Constantine XIII.	7	556
	21	134
Constantine the Great	14	201
Craterus	8	163
Cratippus	8	163
Critias	8	211
Critolaus	8	213
Ctesias	8	278
Cylon	8	364
Cynaegirus	8	365
Damocles	8	431
Darius	8	477
	13	372
Demades	8	630
Demaratus	8	631
Demetrius I, surnamed Poliorcetes	8	637
Diomedes	9	134
Dion of Syracuse	9	134
Dionysius of Halicarnassus	9	136
Dionysius the Elder	9	136
Dionysius the Younger	9	136
Epaminondas	10	410
	13	374
Ephorus	10	415
Erostratus	10	483
Eumenes	10	575
Eumenes II	10	575
Finlay, George	11	225
Gelon	12	362
George I.	12	475
Greek historian, First	14	210
Greek historical literature, Origin of	14	210
Greek historiography, Minor contributions to	14	212
Greek writers, Systematic historical works of	14	211
Harmodius	13	711
Hecatæus	14	60
	14	210
Helen	14	76
Hellanicus of Lesbos	14	210
Herodotus of Halicarnassus	14	211
Hetæra	14	160
Hypatia	14	601
Hyperides	14	601
Iphicrates	15	303
Isocrates	14	212
Isthmian Games	15	425
John VI.	16	155
	21	133
John VII.	16	155
	21	134
King George	2	412
Lais	16	654
Lascaris, Constantine	16	757
Leonidas	13	372
	17	303
Leonnatus	17	303
Longus	17	648
Lycurgus	17	771
Lysander	17	786
Lysanias	17	786
Lysimachus	17	787
Manuel I, Camnenus	18	241
Manuel II, Palæologus	18	242
	21	133
Marathon	13	372
Mauricius, Flavius Tiberius	18	451
Maurocordatos, Alexander	18	454
Mavrocordatos, Alexander	18	454
Megacles	18	592
Megasthenes	18	594
Milo	19	132
Miltiades	19	132
Nearchus	20	22
Niebuhr	21	482
Octavianus	1	108
	2	548
Olympias	20	673
Otho	21	42
Otto I.	21	42
Palæologus, George	21	133
Paparrhigopulos, Constantine	21	256
Parmenio	21	340
Pausanias	13	372
	21	426
Pelopidas	13	373
	13	374
	21	437
Periander	21	582
Periegetes	22	300
Pericles	13	385
	21	487
	21	584
Perseus	21	611
Petty, William	2	370
	21	697
Philip of Macedon	2	412
Philip II.	21	742
Philip V, king of Macedonia	13	374
	21	743
Philistus	21	761
Phylarchus	22	24
Pisistratus	22	117
Pittacus	22	123
Plato	13	386
	22	233
Polemon	22	300
Polybius	14	212
	15	157
	22	328
Polycrates	22	329
Praxiteles	22	514
Proclus	22	628
Procrustes	22	630
Protesilaus	22	679
Protogenes	22	691
Psammetichus	22	728
Pyrrhus	23	46
Rhigas, Constantine	23	461
Scientific and critical history, Founder of	14	211
Severus Alexander	1	368
	14	201
Solon	25	244
Sophocles	13	386
	25	261
Strabo	25	706
Themistocles	13	372
	26	507
Theramenes	26	523
Thrasybulus	26	592
Thucydides	13	405
	26	598
Timæus of Tauromenium	14	212
Timotheus	26	635
Ulysses	27	265
Venizelos, Eleutherios	28	6
Xanthippe	29	596
Xenophon	13	405
	29	597
Xerxes	13	372
	29	598
Ypsilanti, Alexander	29	669
Ypsilanti, Constantinos	29	669
Ypsilanti, Dimitrios	29	670
Ypsilanti, Gregory	29	670
Zaleucus	29	682
Zenobia	29	701
Zosimus	29	734
HAITI		
Boyer, Jean Pierre	4	374
Christophe, Henri	6	630
Faustin I.	11	68
Légitime, François Denys	17	255
Ogé, Jacques Vincent	20	606
Sam, Guillaume	2	412
HAWAII		
Kalakaura, David	16	280
Kamehameha	16	287
Kamehameha III	16	287
Kamehameha IV	16	287

Biographies — cont'd	Vol.	Page
Kamehameha V	16	287
Kavikeaouli	16	287
Liholiho	16	287
Liholiho, Alexander	16	287
Liliuokalani, Lydia Kamekeha	17	436
Lunalilo, William C.	17	739

HEBREW AND JEWISH

Akiba Ben Judah	1	295
Aristeas	2	236
Aristobulus I	2	237
Aristobulus II	2	237
Asa	2	375
Crémieux, Adolphe	16	144
Eupolemus	10	578
Ewald, Heinrich	10	614
	14	257
Flavius, Josephus	14	210
Graetz, Heinrich	13	103
	14	240
Güdeman, Moritz	13	522
Guidi, Ignazio	13	533
Herod	14	136
Herzl, Theodor	14	154
Hyrcanus, John	14	611
Hyrcanus I	14	611
Jason of Cyrene	15	751
Jost, Isaac M.	14	240
Kuenen, Abraham	14	257
	16	552
Mariamne	18	283
Samuel	24	228
Simon Maccabæus	25	25
Stade, Bernhard	14	257
Touro, Judah	16	135
	26	721
Wellhausen, Julius	14	257
	29	180

HOLLAND

Aarsens, Frans Van	1	5
Ærschot, Philippe de Croy	2	331
Aitzema, Lieuwe (Leo) Van	1	292
Arschot, Philippe de Croy	2	331
Augusta	1	239
Bakhuizen, Van Den Brink, Reinier Cornelis	3	62
Blok, Adriaen	14	239
	14	253
Commelin, Isaac	7	364
De Groot, Hugo	13	490
Delaet, Johan	8	605
De Villiers, John Abraham Jacob	9	39
Dousa, Janus	9	283
Egmont, Lamoral	9	731
Emma, Adelheid Wilhelmine Therese	10	295
Frederick, Henry	12	36
Fruin, Robert	12	128
Groen Van Prinsterer, Guillaume	13	484
Grotius, Hugo	13	490
	14	223
Hamada-Yahyoe	15	658
Hooft, Pieter C.	14	362
Margaret of Austria	18	278
Margaret of Parma	18	279
Meursius, Johannes Van Meurs	18	736
Nassau, Joan Mauritz van, Count of Nassau-Siegen	19	719
Philippa of Hainault	21	746
Prinsterer	14	239
Tasman, Abe Janssen	2	570
	26	279
Usselinx, William	27	607
Van Diemen, Anthony	27	669
William I	29	334
William I, Frederick	29	335
William II, Frederick George Louis	29	335
William III, Alexander Paul Frederick	29	335
William of Orange	2	412
	29	334

INDIA

Asoka Vardhana	2	401
Bentinck, William	3	526
	15	13
	15	16
Burgess, James	5	38
Coote, Eyre	7	644
	15	15
Cornwallis, Charles	7	716
	15	15
Forrest, Sir George William	11	493
Francis, Sir Philip	11	757
Harlan, John	13	709
Hastings, Warren	15	15
Hunter, Sir William Wilson	14	515
Hyder Ali	14	538
Jah, Asaf	14	538
Jung Bahadur, Sir Maharajah	16	248
Jung, Sir Salar	16	248
Lally, Count de	15	15
Minto, Gilbert Elliot	15	16
Nana Sahib	15	30
	19	687
Porus (King)	22	419
Rani of Jhansi	15	30
Ranjit Sing	23	217
Shah Alum (Alam Alem)	24	640
Shah Jahan	24	640
Shah Jehan	24	640
Surajah Dowlah	26	61
Vasco Da Gama	12	259
	15	14

ITALY

Acciaioli, Renatus	1	70
Accoramboni, Vittoria	1	77
Alberoni Giulio	2	330
	15	450
Amari, Michele	1	463
Amedeo, Vittorio	15	449
Anconitano, Ciriaco	15	446
Anghiera, Peter Martyr d'	14	227
Armellini, Carlo	15	457
Arnold of Brescia	2	319
	27	215
Atalaric	15	441
Avalos, Ferdinand d'	2	671
Avellino, Francesco Maria	2	673
Avezzano, Giuseppe	2	677
Bacciocchi, Felice Pasquale	3	11
Bacciocchi, Maria Anna Elisa Bonaparte	3	11
Balbi, Adriano	3	72
Balbo, Cesare	3	72
Balzani, Ugo	3	128
Bandiera, Attilio	3	139
	15	455
Bandiera, Emilio	3	139
	15	455
Bartoli, Adolfo	3	295
Bartoli, Daniello	3	295
Bassi, Ugo	3	318
Battisti, Cesare	3	343
	15	556
Beauharnais, Eugene	3	390
	15	451
Belgiojoso, Cristina	3	455
Belisarius	3	470
	15	441
Bentivoglio, Guido	3	526
Bernard, Little Saint	3	570
Bianchi-Giovini, Aurelio	3	610
Bianco, Andrea	3	611
Biondo, Flavio	3	722
	15	446
Blondus, Flavius	14	221
Borghesi, Bartolommeo	4	270
Borgia, Cæsar	4	270
	15	448
Borgia, Lucrezia	4	271
	25	58
Bossi, Luigi	4	291
Botta, Paul Emil	4	315
	20	798
Boturini Benaduci, Lorenzo	4	320
Bruni, Leonardo	4	634
	14	221
Cagliostro, Alessandro	5	144
Canina, Luigi	5	500
Canosa, Di Puglia	5	526
Canovai, Stanislao	5	527
Cantu, Cesare	5	537
Capello, Bianca	5	550
Capisucchi, Paolo	5	558
Capponi, Gino	5	570
Capponi, Pier	15	447
Carducci, Giosuè	5	605
	14	239
Carutti di Cantogna, Domenico	5	688
Castellammare, Di Stabia	6	3
Castiglia, Gaetano	15	453
Castiglione, C. O.	6	6
Cavour, Camillo Benso, Counti di	6	152
	11	756
Cenci, Beatrice	6	190
Charles, Emanuele I	6	327
	15	449
Charles the Fat	4	379
	6	312
	15	442
Charles III, Duke of Parma	2	412
Ciriaco de' Pizzicolli	8	371
Coccio, Marcantonio	14	221
Columbus, Christopher	7	339
Confalonieri, Federico	15	453
Crescentius, John	8	181
Croce, Benedetto	14	254
Cyriacus	8	371
Dandolo, Andrea	8	449
Dandolo, Enrico	8	449
D'Annunzio, Gabriele	8	463
	14	239
Davila, Enrico Caterino	8	507
Denina, Carlo Giacomo Maria	8	677
Desiderius	9	92
Fabretti, Ariodante	10	694
Fabretti, Raffaele	10	694
Farini, Luigi Carlo	11	20
Farnese Alessandro	11	42
Farnese, Antonis	11	43
Farnese Francis	11	43
Farnese, Octavius	11	42
Farnese, Odvardo	11	43
Farnese, Ottavio	11	43
Farnese, Ranuccio	11	43
Fea, Carlo	11	74
Ferdinand I	11	120
Ferdinand II	11	120

Biographies — cont'd	Vol.	Page
Ferdinand III	11	120
	15	452
Ferdinand IV	11	120
Ferrari, Giuseppe	11	137
Ferrero, Guglielmo	11	139
	14	253
Ferrucci, Francesco	15	448
Fieschi, Giovanni Luigi de	11	187
Fiesco, Giovanni Luigi de	11	187
Filiberto, Emanuele	15	449
Fionni, Matteo	11	229
Fiorelli, Giuseppe	11	229
Foresti, Eleutario Felice	11	477
Foscari, Francesco	11	526
Fra Diavolo	11	568
Frederick II	12	32
	15	443
Galeazzo, Gian	28	132
Galilei, Galileo	12	237
	22	40
Gallavresi, Giuseppe	12	243
Gallenga, Antonio Carlo Napoleon	12	244
Garibaldi, Giuseppe	12	292
	15	457
Gavazzi, Alessandro	12	345
Gioberti, Vincenzo	15	455
Giustiniani, Bernardo	14	221
Gonzaga, Ferdinand de	11	42
Gregory II	13	451
	15	441
Guicciardini, Francesco	13	532
	15	531
Guiscard, Robert	24	777
Henry IV	15	442
Hildebrand	13	452
	15	442
Humbert the Good	14	489
Humbert I	14	488
	15	460
Justinian	15	441
Ladislas	16	643
Lanciani, Rodolfo Amedeo	16	690
Leo the Isaurian	15	441
	17	296
Leo XIII	15	460
	17	294
Liudprand	17	526
Liutprand	17	526
	17	527
Lorenzo the Magnificent	15	447
Luigi, Pietro	11	42
Machiavelli, Niccolo	18	52
Malatesta	18	161
Manin, Daniele	15	456
	18	217
Margherita	18	280
Maria Teresa	15	450
Maroncelli, Pietro	15	453
Masaniello	15	450
	18	374
Mastai-Ferretti, Giovanni	15	456
Mazzini, Giuseppe	15	455
	18	472
Medici, Alessandro de	2	412
Medici, Cosimo de'	15	446
Medici, Lorenzo de'	15	446
Melzi, Francesco	15	451
Menabrea, Luigi Federigo	18	620
Menotti, Ciro	15	454
Micca, Pietro	15	450
Michele Pezza	11	568
Morosini, Francesco	15	449
	19	472
Murat, Joachim	15	452
	19	602
Muratori, Lodovico Antonio	14	238

Biographies — cont'd	Vol.	Page
Napoleon III	15	458
	19	701
Noto, Aurispa Da	15	446
Odoacer	15	441
	20	585
Odovacer	20	585
Orsini, Felice	21	11
Otto I	15	442
Pais, Ettore	21	131
Pallavicino, Giorgio	15	453
Paul V (Pope)	15	658
	21	412
Pausilippo	22	421
Pellico, Silvio	15	453
	21	487
Pepe, Guglielmo	15	454
	21	562
Persano, Admiral	15	553
Petrarch	21	674
	23	367
Piccolomini, Æneas Sylvius	14	221
	22	64
Pigafetta (Francesco), Pice Antonio	22	78
Pius VII	15	452
	22	137
Pius IX	15	460
	22	137
Poerio, Carlo	22	274
Portinari, Beatrice	3	387
Prina, Count	15	452
Procida, John of	22	628
Ranuccio II	11	43
Renatus I of Anjou	23	375
René of Anjou	23	375
René II	23	375
Riccio, David	23	484
Ricciotti, Nicola	15	455
Richelieu, Armand Jean, Cardinal	15	449
	23	496
Rienzi, Cola Di	15	446
	23	516
Rizzio, David	23	484
Roger II	23	627
	24	777
Rosellini, Ippolito	23	696
Rossi, Giovanni Battista de'	23	710
Rossi, Pellegrino	15	456
	23	710
Saffi, Aurelio	15	457
Savonarola, Girolamo	15	447
	24	329
Sestini, Domenico	24	607
Sforza, Ludovico	15	447
	24	635
Taszoli, Enrico	15	457
Theodoric the Great	26	511
Tiraboschi, Girolamo	26	644
Toscanelli Dal Pozo, Paolo	26	715
Ugolino (Della Gherardesca)	27	252
Valle, Pietro della	27	650
Vasari, Giorgio	14	222
	27	692
Verazzano, Giovanni da	28	11
Verrazano, Giovanni da	28	11
Vespucci, Amerigo	11	363
	28	43
Victor Amadeus II	15	450
	24	301
Victor Emmanuel I	15	452
	15	454
	28	67
Victor Emmanuel II	15	459
	28	67
Victor Emmanuel III	15	460
	28	68

Biographies — cont'd	Vol.	Page
Villani, Filippo	14	222
Villari, Pasquale	28	91
Visconti, Ennio Quirino	28	132
JAPAN		
Adams, William	1	127
Gosanjo (Emperor)	15	644
Hasekura-Rokuemon	15	657
Hashimoto Sanai	13	749
Heco, Joseph	14	61
Hideyoshi, Toyotomi	15	645
Hitotsubashi	14	298
Ii Kamon No Kami Naosuke	14	674
Ito, Prince Hirobumi	2	412
	15	558
Iyeyasu, Tokugawa	15	570
Jimmu (Emperor)	15	641
Jingo (Empress)	15	641
	15	653
Kaempfer, Engelbrecht	14	228
Keiko (Emperor)	15	641
Kido, Takayoshi	16	405
Kimmei (Emperor)	15	641
Komyo (Empress)	15	642
Kotoku (Emperor)	15	642
Kublai Khan (Emperor)	15	653
	16	551
Marco Polo	15	654
	22	325
Matsukata, Masayoshi	18	439
Minamato Yoritomo	19	146
Mutsuhito	19	657
Nariaki, Daimyo	19	706
Nobunaga	15	679
	20	386
Nuyts, Pieter	15	658
Paul of the Holy Faith	15	655
Shirakawa (Emperor)	15	644
Shogun Tsunayoshi	15	632
Shomu (Emperor)	15	642
Shotoku (Prince)	15	641
Sujin (Emperor)	15	641
Tokimune	14	313
Tokugawa Iyeyasu	15	631
	26	670
Yamada-Nizayemon	15	659
Yasutoki	14	313
Yoritomo Minamoto	29	641
Yoshimune	15	659
Yoshinobu	14	298
	29	647
Yoshisada, Nitta	14	313
Yoshitsune	29	647
MEXICO		
Alaman, Lucas	1	308
Austin, Stephen Fuller	2	562
Bustamante, Anastasio	5	76
Bustamante, Carlos Maria	5	76
Carbojal, Francisco	5	586
Carlotta (Marie Carlotta Amelie)	5	621
Carranza, Venustiano	18	795
	27	366
Clavigero, Francisco Xavier Saverio	7	65
Cortés, or Cortéz, Hernando, Hernan, or Fernando	8	26
Cortina, Juan Nepomucena	8	27
Cuitlahuatzin	8	294
Dávila y Padilla, Augustin	8	507
Diaz, Félix	18	795
Diaz, Porfirio	9	75
	18	794
Figueroa, Francisco	11	203
Frejes, Francisco	12	57
Gáma, Antonio Leon de	12	259

Biographies — cont'd	Vol.	Page
Huerta, Victoriano	14	474
	18	795
Ignacio, José de Jesu María	14	671
Iturbide, Augustin de	15	559
Itzcoatl	15	560
León, Juan Vásquez de	17	299
Loessing, Herman	14	671
Losada, Manuel	17	710
Lozada, Manuel	17	710
Madero, Francisco I	18	795
Matamoros, Marciano	18	422
Maximilian	18	458
Mendoza, Antonio de	18	627
Moctezuma	19	405
Montecuma	19	405
Morelos y Pavon, José Maria	19	447
Motezuma	19	405
Muteczuma	19	405
Orozco y Berra, Manuel	21	9
Santa Anna	18	793
	24	276
Vetancour, Augustin	28	46
Vetancourt, Augustin	28	46
Villa, Francisco	18	795
Vizcaino, Sebastian	15	657
	28	157
Zuniga, Alvaro Maurique de	29	739
NORWAY		
Bernadotte, Jean Baptiste Jules	3	567
Bohemond I	4	162
Daae, Ludvig	8	385
Falsen, Christian Magnus	10	736
Haakon the Good	13	600
Haakon Haakonsson	13	600
Haakon Herdebred	13	600
Haakon Magnusson	13	600
Haakon IV	13	600
Haakon VII	13	601
Harald I	13	720
Harald III	13	720
Harold I	13	720
Harold III	13	720
Munch, Peter Andreas	19	562
Nansen, Fridtjof	19	689
Rygh, Oluf	24	73
PERSIA		
Anushirvan	16	395
Artaxerxes Bebegan	2	347
Artaxerxes Ochus	2	347
Artaxerxes I	2	347
	21	618
Artaxerxes II	2	347
	21	618
Aspasia the Younger	2	404
Atossa	2	518
Cambyses I	2	254
	14	268
Cambyses II	5	254
Cyrus	2	441
Cyrus the Great	8	373
Cyrus the Younger	8	374
	14	268
	21	617
	27	245
Darius	8	477
	21	617
Darius I	8	477
Darius II	8	477
Darius III	8	477
Hystaspes	14	611
Khosru I	16	395
Khosru II	16	395
Khusrau I	16	396
Mirkhond, Haman Ed Din	19	221
Muzaffar-Ed-Din	19	657
Mnemon	2	347
Nadir-Shah	19	678
Nasr-ed-deen	19	718
Ochus	21	619
Smerdis	25	110
Tamasp Kuli Khan	19	678
Xerxes	21	618
Xerxes I	29	598
PHILIPPINES		
Aguinaldo, Emilio	1	268
Cerezo, Lieut. Saturnini Martin	3	79
Mabini, Apollinario	18	2
POLAND		
Asnyk, Adam	2	401
Augustus III, Frederick	2	550
Bielski, Marcin	3	690
Branicki, Jan Klemens	4	414
Chmielnicki, Bogdan	6	580
Chodkiewicz, Jan Karol	6	582
Czacki, Tadeusz	8	378
Czajkowski, Michal	8	378
Czartoryski, Adam George, Prince	8	378
John III	16	156
Kosciuszko, Thaddeus	10	34
	16	530
Ladislas II, Jagello	16	643
Ladislas III	16	643
Ladislas IV	16	643
Ladislav I, or Vladislav	16	643
Lelewel, Joachim	17	277
Mazeppa, Ivan Stepanovitch	18	471
Mazeppa, John	18	471
Naruszewicz, Adam Stanislaw	19	710
Poniatowski	22	349
Potocki, Ignanzy	22	448
Potocki, Jan	22	448
Potocki, Stanislas Felix	22	448
Pulaski, Casimir	22	794
Sigismund I	24	798
Sigismund II, Augustus	24	798
Sigismund III	24	799
Sobieski, John	24	617
Stanislas I, Leszcynski	25	482
Stanislas II, Augustus	25	483
Stanislaus the Beneficent	25	483
Stephen Bathori	25	618
Szajnocha	14	239
Uladislas	27	261
Vladislas	27	261
Zamosc	29	685
Zamojski, Andrzej	29	685
Zamojski, Jan	29	685
Zamoyski	29	685
PORTUGAL		
Albuquerque, Affonso d'	1	340
Alfonso I	1	379
	22	413
Alfonso III	22	413
Alfonso V	1	379
Baena, Antonio	3	36
Barros, Joãs de	3	281
	14	228
Carlos I	2	412
	5	620
Castanheda, Fernao Lopez de	5	720
Cazal, Manoel A. de	6	156
Correa De Serra, José Francisco	8	18
Emanuel the Great	10	272
Ferdinand of Portugal	11	122
Gama, Vasco da	12	239
	14	280
John I	22	413
Lopes, Fernao	17	653
Lopez, Fernao	17	653
Loulé, Marquis of	17	690
Manuel II	18	242
Maria II, Da Gloria	18	282
Miguel, Maria Evaristo	19	51
Pedro, Dom, Duke of Coimbra	21	466
Pedro I	21	465
Pedro V	21	466
Pia, Maria	18	283
Sebastian, Dom	24	498
Sousa, Martin Alfonso de	25	273
Souza, Martin Alfonso de	25	273
ROME		
Æmilianus, C. Julius	1	174
Æmilius Paulus	1	174
Agricola, Gnæus Julius	1	241
Alexander Severus	1	368
Ammianus Marcellinus	1	578
Ancus Marcius	1	656
Antiochus	2	35
	22	751
Antonius, Gaius	2	46
Antonius, Marcus	2	46
Appius Claudius Crassus	2	83
Appian of Alexandria	2	83
Arria	2	329
Asconius	2	381
Attalus, Flavius Priscus	2	520
Atticus, Titus Pomponius	2	523
Augusta	2	542
Augustulus Romulus	2	548
Augustus, Gaius Julius Cæsar Octavianus	2	548
Aurelianus Lucius Domitius	2	553
Aurelius Antonius Marcus	24	512
Aurelius Victor, Sextus	2	554
Balbinus, Decimus Cælius	3	72
Balbus, Lucius Cornelius	3	73
Bibulus, Lucius Calpurnius	3	679
Brutus, Decimus Junius Albinus	4	645
Brutus, Lucius Junius	4	645
Brutus, Marcus Junius	4	645
Cæsar, Julius	5	138
	11	259
	14	213
	14	271
Caius Caligula	28	670
Caligula, Gaius Cæsar Augustus Germanicus	5	218
	11	259
Calpurnia	5	235
Camillus, Marcus Furius	5	265
Capitolinus, Julius	5	566
Caracalla	5	582
	23	670
Carinus, Marcus Aurelius	5	614
Carus, Marcus Aurelius	5	688
Casca, Publius Servilius	5	696
Cassiodorus, Flavius Magnus Aurelius	5	712
	25	60
Cassius Longinus, Gaius	5	713
Catiline	6	103
Cato, Marcus Porcius	6	106
Cato the Censor	6	105
	14	213
Cincinnatus, Lucius Quinctius	6	685

Biographies — cont'd	Vol.	Page
Claudius Applus, Cæcus.	7	62
	11	259
Claudius I, or Tiberius Claudius Drusus Nero Germanicus	7	62
	11	646
Claudius II	7	62
Clodia	7	122
Clodius, Publius Pulcher	7	122
Cœlia	7	123
Cneius Pompeius	22	344
Cocles	14	381
Commodus, Lucius Ælius Aurelius	7	408
Constans, Flavius Julius	7	558
Constantine	11	556
	14	272
Constantine the Great	23	671
Constantine I, Flavius Valerius Aurelius Constantinus	7	554
Constantine II, Flavius Claudius Constantinus.	7	555
Constantine III	7	555
Constantinus	23	671
Constantius I, Flavius Valerius	7	562
Constantius II, Flavius Julius	7	562
Coriolanus, Gaius Marcius	7	695
Cornelia	7	709
Crassus, Lucius Licinius	8	161
Crassus, Marcus Licinius	8	161
Curtius, Rufus Quintus.	8	319
Decius, Gaius, Messius Quintus Trajanus	8	559
Decius Jubellius	8	559
Decius Mus, Publius	8	559
Deiotarus	8	601
Dentatus, Marcus Curius	8	688
Didius Salvius Julianus, Marcus	9	92
Diocletian	9	132
	11	556
	23	670
Diocletinus, Gaius Aurelius Valerius	9	132
Dolabella, Publius Cornelius	9	233
Domitia	9	249
Domitian, Titus Flavius Domitianus Augustus.	9	249
Drusus, Nero Claudius	9	356
Duilius, Gaius	9	390
Elagabalus	10	47
Epiphanes	22	751
Eudocia	10	564
Eudoxia	10	565
Eutropius	10	586
Fabian, Pope	6	31
Fabio Chigi	1	361
Fabricius, Gaius Fabricius Luscinus	10	695
Fausta, Flavia Maximiana	11	68
Faustina, Annia	11	68
Faustina, Annia Galeria.	11	68
Fimbria, Gaius Flavius.	11	212
Flamininus, Titus Quinctius	11	331
Flaminius, Gaius	11	331
Flavian Cæsars	11	337
Flavius Vespasianus	23	670
Florus	11	380
Fulvia	12	159
Gabinius, Aulus	12	214
Gaius Plinius Cæcilius Secundus	22	249
Gaius Sallustius Crispus	24	189
Galba, Servius Sulpicius	12	233
Galerius Valerius Maximianus	12	235
Gallienus, Publius Licinius Valerianus	12	248
Gallio, Lucius Junius Annæus	12	248
Gallus, Caius Cornelius	12	251
Germanicus Cæsar	11	260
	12	568
Geta, Septimus	12	627
Gordianus, Marcus Antonius	13	62
Gracchus Gaius Sempronius	13	101
Gracchus, Tiberius Sempronius	13	101
Gratian	11	558
	13	161
Gratianus	13	161
Hadrian	13	610
	23	670
Hannibal	13	679
	14	270
	23	668
Heliogabalus	10	47
	23	670
Heraclius	14	111
	24	621
Honorius, Flavius	14	359
Horatii	14	381
Horatius	14	381
Hortensius, Quintus	14	417
Jovian	11	556
Jovianus, Flavius Claudius	16	225
Juba	16	227
Jugurtha	16	240
Julia	16	241
Julia Domna	16	241
Julian the Apostate	11	557
	16	242
Julius Cæsar	2	412
	5	139
Justin (Marcus Justinianus Justinus)	16	266
Justina	16	267
Laelius, Gaius	16	646
Lepidus, Marcus Æmilius	17	309
Licinius, Gaius	17	401
Licinius, Gaius Flavius.	17	401
Livy	14	213
	17	545
Lothair I	17	668
Lothair II	17	669
Louis I	17	672
Louis II	17	673
Louis III	17	673
Louis IV	17	673
Lucretia	17	719
Lucullus, Lucius Licinius	17	719
Mæcenas, Gaius Cilnius.	18	110
Magnentius, Flavius Papilius	18	128
Manlius, Marcus	18	227
Marcellus, Marcus Claudius	18	267
Marcus Aurelius Antoninus Bassianus	5	582
	18	274
	24	512
Marius, Gaius	18	296
Maroxia	18	307
Masinissa	18	378
Massinissa	18	378
Maxentius, Marcus Aurelius Valerius	18	454
Maximianus I, Marcus Aurelius Valerius	18	458
Maximinus, Caius Julius Verus	18	459
Maximus Magnus	18	460
Messalina, Valeira	18	691
Metella, Cæcilia	18	712
Mithridates VI (Eupator)	19	271
Mummius, Lucius	19	561
Narses	19	710
Nero, Lucius Domitius Ahenobarbus	11	259
	20	80
	23	670
Nerva	11	259
	20	80
Numa Pompilius	20	486
Octavia	20	574
Octavius	14	271
	23	669
Otho, Marcus Salvius	11	259
	21	42
Otho I	21	41
Otho II	21	41
Otho III	21	41
Otho IV	21	42
Paterculus, Gaius Velleius	21	389
Paterculus, Gaius Velleius	14	213
	21	389
Pertinax, Publius Helvius	21	642
Philip (Marcus Julius Philippus)	21	740
Pictor, Fabius	14	213
Piso, Gaius Calpurnius	22	118
Piso, Gnæus Calpurnius.	22	118
Piso, Lucius Calpurnius	22	118
Piso, Lucius Calpurnius Frugi	22	118
Piso, Marcus Pupius	22	118
Plancus, Lucius Munatius	22	151
Pliny	22	249
Pliny the Younger	22	249
Pollio, Caius Asinius	22	233
Pompeius, Sextus	22	345
Pompey	22	344
Pompey the Younger	22	345
Pomponius, Lucius	22	346
Poppæa Sabina	22	364
Porsena, A Lars	22	377
Porsenna, A Lars	22	377
Praxeas	22	514
Probus, Marcus Aurelius.	22	625
Probus, Marcus Valerius.	22	625
Propertius, Sextus	22	659
Ptolemy (Claudius Ptolemæus)	22	752
Ptolemy V	22	751
Ptolemy VI	22	751
Ptolemy VII	22	751
Ptolemy XIII	22	752
Quintilianus, Marcus Fabius	23	97
Quintilius, Aurelius Claudius	23	98
Quirinus, Publius Sulpicius	23	98
Regulus, Marcus Atilius.	23	326
Rienzi, Cola di	23	516
Romulus	23	667
Romulus Augustulus	11	196
	23	676
Rossi, Giovanni Battista de	6	33
	23	710
Rullus, Publius Servilius	23	764
Sabinus, Masurius	24	84
Sallust	14	213
	24	189
Scævola, Caius Mucius	24	345

Biographies — cont'd	Vol.	Page
Sejanus, Lucius Ælius	24	534
Servius Tullius	24	605
Severus, Alexander	26	554
	26	622
Severus, Lucius Septimius	14	272
	24	622
	26	553
Spartacus	25	363
Stilicho, Flavius	25	648
Suetonius	14	213
	25	789
Sulla, Lucius Cornelius	25	808
Tacitus, Marcus Claudius	26	202
Tacitus, Publius Cornelius	26	202
Tarquinius, Lucius	26	273
Tarquinius, Sextus	17	719
Theodosius	11	558
Theodosius, the Elder	26	511
Theodosius the Great	26	511
Theodosius II	26	512
Theodosius III	26	512
Thusnelda	26	603
Tiberius	11	259
	26	606
Tiberius Claudius Nero Cæsar	26	606
Tiberius Gracchus	2	412
Titus, Flavius Sabinus Vespasianus	26	654
Trajan	11	259
	26	765
Trajanus, Marcus Ulpius	26	765
Tullius, Servius	22	244
Tullus Hostilius	22	244
	27	138
Ulpianus, Domitius	27	263
Valens, Flavius	27	645
Valentinian I, Flavius	27	646
Valentinian II, Flavius	23	671
	27	646
Valentinian III, Flavius Placidus	27	646
Valerian	27	647
Valerianus, Publius Lucinus	27	647
Valerius Antias	27	648
Valerius Maximus	27	648
Valerius, Publius	27	647
Varus, Publius Quintilius	27	692
Verres, Gaius	28	35
Vespasianus, Titus Flavius Sabinus	28	42
Vicus Jugarius	23	664
Vicus Tuscus	23	664
Virginia	28	116
Virginius	2	84
Viscellinus, Spurius Cassius	28	132
Vitellius, Aulus	28	151
RUMANIA		
Alexander of Rumania	1	367
Ferdinand, Victor Albert Meinrad	11	122
Iorga, Nicolæ	15	295
Misu, Nicholas	19	262
Xénopol, Alexandru	14	239
RUSSIA		
Aksakoff, Ivan Sergeyevich	1	296
Aleksander Yaroslavitch Nevsky	24	8
Aleksandra Feodorovna	1	357
Alexander Nevsky, Saint	1	367
Alexander I	1	361
	24	10
Alexander II	1	363
	2	412
	24	11
Alexander III	1	364
	24	11
Alexei Mikhailovitch	1	375
Alexei Petrovitch	1	375
Alexeieff, Michael Vassilivitch	1	375
Alexis Nicolaievitch, Grand Duke	1	376
Anuchin, Dimitri Nikolaievich	2	49
Arsenyer, Konstantin Ivanovich	2	334
Bestuzhev-Ryumin, Konstantin Nikolayevitch	3	589
Biren, Ernest John von	4	3
Biron, Ernest John von	4	3
	24	10
Boris Fodorovich Godunov	4	274
Breshkovskaya, Ekaterina Constantinovna	4	469
Catharine I	6	52
Catharine II	6	52
	10	33
	14	284
	24	10
Constantine, Nikolaevitch (Grand Duke)	7	556
Constantine, Pavlovitch (Grand Duke)	7	556
Demidoff, Nikita	8	638
Denikin, General	24	61
Dolgoruky, Katharina Michailow'na (Princess)	9	235
Elizabeth Petrowna	10	248
Eudoxia Feodorovna	10	565
Eugen, Frederick Karl	10	565
Fedorovich, Michael	24	8
Feodor I, Ivanovitch	11	118
Feodor II	11	118
Gagarin, Matthew Petrovich	12	225
Galitzki, Daniel Romanovitch	24	8
Gapon, George	12	277
Gedimin	12	355
Godunoff, Boris Feodorovitch	12	748
Gortchakoff	12	518
Gurowski, Adam de	13	576
Ivan	15	561
Ivan I	15	561
Ivan II	15	561
Ivan III	15	561
Ivan IV	15	561
	24	8
Ivan VI	15	561
Ivanovna, Anna	1	715
Karamzin, Nicholas M.	14	239
Karlovna, Anna	1	715
	16	309
Kerensky, Alexander	16	529
	18	457
	24	141
	28	380
Koruiloff	16	529
	18	457
Köppen, Peter Ivanovitch	16	521
Kotzebue, August Friedrich Ferdinand von	16	535
Kropotkin, Peter Alexeievitch	16	545
Krüdener, Barbara Juliane	16	546
Lavrov, Peter Lavrovitch	17	120
Lenine, Nicolai	17	285
	18	457
Lestocq, Jean Hermann	17	318
Menshikov, Alexander Danielovitch	18	651
Mentchikof, Alexander Danielovitch	18	651
Milyukov, Pavel Nikolaevitch	19	143
Muravieff, Alexander Nikolaievitch	19	603
Muravieff, Amursky, Count	19	603
Muravieff, Mikhail Nikititch	19	603
Muravieff, Mikhail Nikolaievitch	19	603
Muravieff, Nikolai Jerofeyevitch	19	603
Muravieff, Nikolai Nikolaievitch	19	603
Nicholas I	20	315
	24	12
Oleg	24	7
Pahlen, Peter Ludwig, Count of	21	104
Paul I	2	412
	21	413
	24	18
Paul I, Petrovitch	21	413
Peter the Great	14	283
	24	8
Peter I (the Great), Alexeievitch	21	656
Peter II, Alexeievitch	21	657
Peter III, Feodorovitch	21	657
Peter III of Russia	2	412
	21	657
Pugachev, Yemelyan Ivanovitch	22	792
Pugatscheff, Yemelyan Ivanovitch	22	792
Pypin, Alexander Nicolaevitch	23	39
Rasputin, The Monk	20	478
	23	222
Razin, Stenka (Stephen)	23	242
	24	61
Romanoff, Michael Feodorovich	23	653
Sassoulitch, Zassulitch, Vera	24	310
Sergius, Grand Duke	2	412
Stepanovitch, Ivan	24	61
Stolypin, Premier	2	412
	25	671
Trotzky, Leon	18	457
	27	95
Tsar of Moscow	24	8
Vladimir Monomakh	24	7
Vladimir I, Saint	28	159
Vladimir II, Monomachus	28	159
Zasulitch, Viera Ivanovna	29	689
SERBIA		
Alexander	2	412
Alexander I	1	365
Dechanski, Stefan	24	582
Duchan the Mighty	24	582
Gavrilo Prinzip	28	268
Grand Zhupan Stefan Namanja	24	582
Karageorgevitch, Alexander	16	308
Karageorgevitch, Peter	16	308
Karageorgevitch	21	657
Milan Obrenovitch I	19	54

Biographies — cont'd	Vol.	Page
Michael Obrenovitch III.	19	12
Michael, Prince of Serbia	2	412
	19	12
Natalie	19	722
Nedeljko Cabrinovitch	28	268
Peter I	21	657
Prinzip, Gabrilo	22	600
Trifko Grabesh	28	268
Urosh the Great	24	582

SOUTH AMERICA

Biographies — cont'd	Vol.	Page
Andrada y Sylva, Bonifacio José D'	1	668
Atahualpa	2	486
Balmaceda, José Manuel.	3	111
Balta, José	3	112
Barros, Arana Diego	3	281
Bolivar, Simon	4	182
	27	784
Bolivar y Ponte, Simon.	4	182
Cabrera Bobadilla Cerda y Mendoza, Luis Gerónymo Fernandez de	5	128
Cajigal, De La Vega, Francsico Antonio	5	152
Calancha, Antonio de la.	5	156
Cámara y Libermoore, Manuel de la	5	243
Castelnau F. Comte De.	6	5
Castro, Cipriano	6	19
	27	785
Condorcanqui, José Gabriel	7	482
Contreras, Hernando de.	7	600
Cordova y Figueroa, Pedro de	7	690
Fernandez De Palencia, Diego	11	130
Fernandez Madrid, José.	11	130
Foucher, Jean	11	532
Francia, José G. T. R. da	11	754
Gabriac, Paul Joseph de Cadoine	12	214
Garcilaso (Garcias Laso) De La Vega	12	281
Hernando Pizarro	4	184
Huaina Capac	14	462
Huayna Capac	14	462
Idiarte, Juan	2	412
León Pinelo, Antonio de.	17	301
Le Plongeon, Augustus.	17	168
López, Carlos Antonio	17	653
López, Francisco Solano.	17	653
López, José Hilario	17	653
Loyola, Martín García	17	709
Martinez De Rozas, Juan.	18	341
Medina, José Toribio	18	587
Miranda, Francisco	19	220
	22	734
Mitre, Bartolomé	19	272
Molina, Juan Ignacio	19	325
Montt, Jorge	19	419
Naon, Rómulo S	19	691
Nariño, Antonio	19	706
O'Higgins, Ambrosio	20	609
O'Higgins, Bernardo	20	609
Orbegoso, Luis José	20	738
Paez, José Antonio	21	95
Pedro II	21	466
Pereira da Silva, Joao Manuel	21	575
Pizarro, Francisco	22	139
Pizarro, Gonzalo	22	139
Pizarro, Hernando	4	184
Quiroga, Juan Facundo.	23	98
Rivadavia, Bernardino	2	204
Rosas, Juan Manuel de.	23	691
Torres, L. M	14	242
Ulloa, Antonio de	27	263
Valdivia, Pedro de	27	642
Vasconcellos, Simão	27	693
Vicuna-Mackenna, Benjamin	28	76

SPAIN

Biographies — cont'd	Vol.	Page
Alva, Ferdinand Alvarez de Toledo, Duke of	1	458
Alberoni, Giulio	1	330
Alfonso I	1	379
Alfonso V	1	379
Alfonso X	1	379
Alfonso XII	1	379
Alfonso XIII	1	379
Alphonsus A Sancta, Maria	1	438
Alva, Ferdinand Alvarez de Toledo, Duke of	1	458
Alvarado, Pedro de	1	459
Arguelles, Agustin	2	227
Avila y Zuñiga, Don Luis d'	2	679
Ayala, Lopez de	2	684
Aylion, Lucas Vasquez de	2	684
Azevedo y Zuñiga, Gaspard de	2	689
Badia y Leblich, Domingo	3	35
Ballesteros, Don Francisco	3	98
Beal, Robert	14	239
Bernardo Del Carpio	3	571
Bertodano, J. A. C	14	239
Betanzos, Juan José de.	3	589
Bivar, Rodriguez Diaz de	25	332
Blanche of Bourbon	4	60
Bobadilla, Francisco de.	4	137
Bourbon, Louis	4	346
Cajigal, De La Vega, Francisco Antonio	5	152
Capmany y de Montpalu, Antonio de	5	566
Carlos De Bourbon, Don Maria	5	620
Carlos, Don	5	619
Columbus, Christopher	7	339
	11	188
	11	760
Columbus, Diego	7	342
Columbus, Luis	7	342
Condorcanqui, José Gabriel	7	482
	27	166
De Lome, Enrique Dupuy	8	624
Desclot, Bernat	8	720
Elizabeth Farnese	10	248
Elizabeth of Valois, or Isabella	10	248
El Sabio, Alfonso X	10	45
Empecinado, Don Juan Martin Diazel	10	299
Enciso, Martin Fernandez	10	315
Erauzo, Catalina de	10	468
Espartero, Baldomero	10	501
	25	336
Ferdinand I	11	119
Ferdinand II	11	119
Ferdinand V	11	121
Ferdinand VI	11	121
Ferdinand VII	11	121
Fernández De Enciso, Martin	11	129
Fernandez De La Cueva, Francisco	11	129
Fernandez, Juan	11	129
Ferrer (y Guardia), Francisco	11	139
Ferreras, Juan de	11	139
Florez, Henrique	11	366
Flordio, Blanca, José Mofiino	11	379
Fonseca, Juan Rodriguez	11	425
Francisco Vasquez, Coronado	23	100
Fray Luis Sotelo	15	657
Games, Gutierre Diez de.	12	266
Godoy, Manuel	12	747
Gómara, Francisco Lopez de	13	40
Guevara, Antonio de	13	527
Hernández De Córdoba, Francisco	14	133
Herrera, Antonio de	14	228
Isabella (I) of Castile	11	192
	15	405
Isabella II	15	405
Jeres, Francisco de	29	598
Jimenes De Cisneros Francisco	29	599
Jiménez de Rada, Rodrigo	16	146
La Cosa, Juan de	16	569
Lafuente, Modesto	14	239
	16	650
Las Casas, Bartholomew de	5	694
	14	227
La Serna y de Hinojosa, José de	16	583
Llorente, Juan Antonio Don	17	548
López De Legaspi, Miguel	17	655
Luna, Alvaro de	17	738
Manuel, Don Juan	18	242
Margarit, Peter	18	280
Marguerit, Peter	18	280
Maria Christina	18	282
Mariana, Juan	18	283
Mela, Pomponius	18	599
Mendoza, Diego Hurtado de	14	224
	18	627
Mina, Francisco Espoz y.	19	145
Mina, Francisco Xavier.	19	145
Montesinos, Fernando	19	402
Montpensier, Antoine Marie Philippe Louis d'Orleans	19	414
Moscoso De Alvarado, Luis de	19	495
Muñoz, Juan Bautista	19	595
Narvaez, Pánfilo de	19	710
Narváez, Ramón Marie, Duke of Valencia	19	711
Orosius, Paulus	21	9
Osuna, Pedro Tellez y Givon, Duke of	21	38
Oviedo, Gonzalo Fernandez de	14	227
Oviedo y Valdez, Gonzalo Fernandez de	21	62
Padilla, Juan Lopes de	21	93
Palafox y Melzi, Don José de, Duke of Saragossa	21	134
Pedro the Cruel	21	466
Pelayo	21	482
Pérez, Antonio	21	575
Pérez De Hita, Ginés	21	577
Perez, Juan	11	760
Philip I	21	743
Philip II	14	280
	21	743
Philip III	21	744
Philip IV	21	744
Philip V	21	744
Pizarro, Francisco	22	139
Pizarro, Gonzalo	22	139

Biographies — cont'd	Vol.	Page
Ponce De León, Juan	22	347
	22	403
Prim, Marshal	2	412
	22	574
	25	337
Roderick	23	620
Roncesvalles	23	677
Solis y Ribadeneira, Antonio de	25	241
Tupac Amaru II	27	166
Urdaneta, Andres	27	591
Vaca de Castro, Cristóval	27	624
Valera, J	14	239
	27	646
Valla, Laurentius	14	221
	27	649
Vasquez De Coronado, Juan	27	695
Vega, Garcilaso de la	12	281
	14	228
Veragua, Duke of	28	11
Veres, Francisco de	29	598
Vitoria	28	155
Xeres, Francisco de	29	598
Ximénez De Quesada, Francisco	29	599
Zarate, Augustin de	29	689
Zurita, Gerónimo de	14	224
Zurita y Castro, Geronimo	29	741

SWEDEN

Biographies — cont'd	Vol.	Page
Adolphus, Gustavus	26	566
	26	567
Alin, Oscar Josef	1	404
Ankarström, Captain	13	578
Armfelt, Gustav Mauritz	2	271
Banèr, Johan Gustafsson	3	140
Bernadotte, Jean Baptiste Jules	3	567
Björnstjerna, Magnus Frederick Ferdinand	4	29
Birger of Bjälbo	4	3
Carlson, Fredrik Ferdinand	5	622
	14	239
Charles IX	6	324
Charles X	6	634
Charles XI	6	324
	26	119
Charles XII	6	324
	26	120
Dalin, Olof von	8	416
D'Enghien, Duke	13	578
Eric	10	474
Fersen, Hans Axel	11	143
Fryxell, Anders	12	140
Geijer	14	239
Gustafson, Gabriel Adolf	13	577
Gustavus I	13	577
Gustavus II	2	412
	13	578
Gustavus III	13	578
Gustavus IV	13	578
Gustavus V	13	578
Gustavus Adolphus	26	119
Gustavus Vasa	26	118
Hjärne	14	239
Königsmark, Philipp Christopher	16	518
Oscar II	21	18
Oxenstierna, Axel, Count	21	71
	26	567
Oxenstierna, Johan Gabriel, Count	21	71
Piehl, Karl	22	73
Sigismund III	24	799
Sture, Sten	25	755

SWITZERLAND

Biographies — cont'd	Vol.	Page
Bernard, Saint	3	570
Bonnivard, François de	4	221
Egli, Johann Jakob	9	730
Fazy (Jean), James	11	73
Gessler, Albrecht, or Herman	12	627
Kopp, Joseph Eutychius	16	520
Melchthal, Arnold von	18	603
Reding, Aloys von	23	288
Tell, William	5	40
	26	400
Tschudi, Ægidius	27	117
Watt, Joachim von	14	223
Winkelried, Arnold von	29	396

SYRIA

Biographies — cont'd	Vol.	Page
Barhadad I	3	250
Barhadad II	3	2.0
Demetrius II	8	637
Nicator	8	637
Nureddin-Mahmud, Malek al-Adel	20	501
William of Tyre	29	337

TURKEY

Biographies — cont'd	Vol.	Page
Abdul Hamid II	1	32
	24	63
Alexius	1	376
Amurath I	1	596
Amurath II	1	596
Amurath III	1	596
Amurath IV	1	596
Amurath V	1	596
Bajazet I	3	58
Bajazet II	3	58
Barbarossa, Khair-ed-Din	3	231
Bayazid I	3	58
Bayazid II	3	58
Essaad Effendi, Mohammed	10	507
Ghazi, the Victorious	21	41
Guignes, Joseph de	13	533
Hamdy Bey	20	804
Ibrahim	14	617
Kara Mustapha	16	807
Mohammed I	19	295
Mohammed II	19	295
Mohammed III	19	295
Mohammed IV	19	295
Mohammed V	19	295
Mohammed VI	19	295
Nazim Pasha	2	412
Osman I	21	41
Osman II	21	41
Othman	21	41
Rassam, Hormuzd	2	438
	23	222
Selim I	24	542
Selim II	24	543
Selim III	24	543
Solyman I, El Kanouni	25	249
Solyman II	25	249
Sultan Abdul-Aziz-Han	1	31
	2	412

HORTICULTURE

General

General	Vol.	Page
Air drainage	12	126
Alpinum	4	306
American blight	2	87
Annona reticulata	26	128
Aquatic-gardens	22	211
Aquate plants	2	106
	4	306
	22	211
Arboretum	2	146
	4	306
Arboriculture	2	146
Arbo-vitæ	2	146
Artificial crossing	22	161
Blanching	4	60
Blight, American	2	87
Border plants	22	211
Botanical gardens	4	306
Botany	4	307
Brick tea	26	307
Bridge-grafting	13	106
Budding	13	105
Bud-grafting	13	105
Bureau of Plant Industry, United States	1	265
Calico bush	22	209
Camellia thea	26	306
Cape ivy	24	560
Chicory	24	176
Cincinnati Horticultural Society	13	141
Cleft-grafting	13	105
Coffee	7	209
Deciduous screens	22	209

General — cont'd	Vol.	Page
Entomology, economic	10	401
Euphorbiaceæ	26	263
Federal Horticultural Board	1	266
Floriculture	14	420
Flowering shrubs	22	209
Food-tree of birds	22	209
Forcing	11	464
Frost	12	124
Garden	12	282
Gardening market	11	28
	14	419
German ivy	24	560
Girdling	28	154
Graftage	13	105
Grafting, bridge	13	106
bud	13	105
by approach	13	105
cleft	13	105
proper	13	105
veneer	13	106
whip	13	105
	13	106
Greenhouse	13	431
insects	13	434
ventilators	13	434
Green tea	26	307
Hedge	14	68
	22	209
low	22	209
quick-growing	22	209
rows, spiny	22	209
Herbaceous plantations	4	306
Horticulture	14	417
pedagogical value of	14	421
Hothouse plants of the North	22	211
Hot houses	13	432
Inarching	13	105
Japanese gingko	22	209
Japanese paulowina	22	209
Juglans regia	28	244
Landscape art	14	421
Layering	17	157
Manzanita	22	209
Marjoram	18	297
Market gardening	11	28
	14	419
Massachusetts Horticultural Society	13	725
Mulch	19	552
Myricaria germanica	26	233
Nursery	20	503
Oolong tea	26	307
Ornamental plants	22	208
Osage orange	20	725
	21	15
Palms	22	209
ornamental	21	218
Plant-breeding	4	461
	8	234
	22	160
possibilities of	22	162
Plants, aquatic	4	306
	22	211
artificial crossing of	22	161
classification of	22	163
diseases of	22	186
food of	22	197
hybridization	22	161
lore of	22	198
malformations in	22	199
medicinal	22	202
migration of	22	204
morphological evolution of	22	204
natural crossing of	22	161
ornamental	22	208
physiology of	22	211
poisonous	22	213

General — cont'd	Vol.	Page
recapitulation of	22	214
regeneration in	22	215
screening of	22	211
selection of, for breeding	22	162
sex in	22	216
structure of	22	217
vascular anatomy of	22	220
Pollarded willows	22	215
Pollarding	22	320
Pomology	14	417
	22	342
Pruning	22	714
	28	154
of fruit-trees	22	714
of ornamental subjects	22	714
Quaker-lady	23	78
Queen of the Meadow	23	78
Quincunx	23	92
Rockeries	4	306
Rubber trees, cultivation of	23	746
Sago	24	110
Saxifraga umbrosa	24	341
Saxifrage	24	341
School garden work	14	421
School gardens	24	390
Seashore shrubs	22	210
Seed testing	24	527
Senecio	24	560
cineraria	24	560
japonicus	24	560
macroglossus	24	560
mikanioides	24	560
petasites	24	560
pulcher	24	560
Shrubs	24	759
seashore	22	210
Storehouse	13	482
Tamarisk	26	232
gallica	26	233
Tea	26	306
cultivation	26	306
culture in the United States	26	307
growing, history of	26	307
in America	26	309
packing	26	307
plucking	26	306
processing	26	306
varieties of	26	309
Ternstræmiaceæ	26	306
Thickets	22	211
Thyme	26	604
Thymus	26	604
serpylliformis	26	604
vulgaris	26	604
Transplanting	27	7
preparation for	27	7
weather	27	8
Truck growing	14	420
Trucking regions	14	420
Vegetable growing	14	419
Vegetable ivory	27	719
Veneer-grafting	13	106
Vine	22	210
growing	28	152
training, Chautauqua system	13	144
Munson's system	13	144
Viticetum	4	306
Viticulture	28	152
in the United States	13	141
War gardens	28	677
Wax-work	22	210
Whip-grafting	13	105
	13	106
Wild bittersweet	22	210
Willows, pollarded	22	215
Wine plant	23	478

Flowers	Vol.	Page
Amaryllis	1	464
Astor	2	443
China	2	444
Bachelor's button	3	16
Begonia	3	444
Bellflower	4	128
Blackberry lily	4	39
Blood flower	4	110
Blood lily	4	110
Bluebell	4	128
Bocconia	4	142
Bomarea	24	197
edulis	24	197
Bouncing bet	4	329
Bouvardia	4	356
Cabbage-rose	5	116
Calecolaria	5	158
Camellia japonica	5	259
Camellia reticulata	5	259
Canna	5	501
Canterbury-bell	5	531
Cardinal flower	5	602
Carnation	5	631
growing	14	421
China astor	2	444
Chrysanthemum	6	647
Clove pink	22	102
Cowslip	8	139
Crocus	8	219
Daffodil	8	391
Dahlia	8	394
Dianthus	9	70
barbatus	9	70
	22	102
deltoides	9	70
plumarius	22	102
Dittany	9	196
Floriculture	14	420
in America	11	366
Flower	11	390
growing States	14	420
Flowers and insects	11	397
Flowers, colors of	11	393
detailed anatomy of	11	396
evolution of	11	393
fertilization by birds	11	395
garden	11	394
for perfumes	21	581
pollination of	11	393
symbolism of	11	396
variations in structure and arrangement	11	392
Forget-me-not	11	489
Fuchsia	12	142
Geranium	12	493
Hairbell	4	128
Harebell	4	128
Hollyhock	14	320
Humble plant	24	572
Hyacinth	14	533
Hydrangea	14	539
Kniphofia	27	79
aloides	27	79
Labiatæ	24	215
Lathyrus grandiflorus	26	127
Lathyrus latifolius	26	127
Lathyrus odoratus	26	127
Lathyrus palustris	26	127
Lathyrus rotundifolius	26	127
Lathyrus tingitanus	26	127
Lavender	17	118
Lilac	17	435
Liliaceæ	17	437
	27	79
Lily	17	437
Lily of the Valley	17	436
Limonium	24	475
Magnolia	18	130
Marguerite	18	281
Marigold	18	287

Flowers — cont'd	Vol.	Page
Menthaceæ	9	196
Mimosa pudica	24	572
Mimosaceæ	24	572
sensitiva	24	572
Narcissus	19	704
Nasturtium	19	719
Orchids	20	749
Old Maid's pink	4	329
Pansy	21	248
Peony	21	559
Petunia	21	698
Phlox	21	784
Picotees	5	631
Pinks	22	102
Plume poppy	4	142
Poppy	22	364
Rhododendrons	23	476
Rosa carolina	23	699
Rosa cinnamomea	23	699
Rosa damascena	23	699
Rosa eglaneria	23	699
Rosa hemisphærica	23	699
Rosa rugosa	23	699
Rosa wichuraiana	23	699
Rose growing	14	420
Roses	23	698
ayrshire	23	698
brier	23	698
climbing	22	210
damask	23	698
evergreen	23	699
French	23	698
hybrid perpetual	23	699
hybrid tea	23	699
monthly	23	699
multiflora	23	698
musk	23	699
perpetual brier	23	699
polyantha	23	699
provence	23	698
Salvia	24	215
argentea	24	108
	24	216
officinalis	24	108
	24	216
patens	24	108
selarea	24	216
splendens	24	108
Sansevieria	24	271
Sea lavender	24	475
Sea pink	24	475
Selfs	5	631
Sempervivium album	24	526
Sensitive plant	24	572
Smilax	25	110
Spiræa	25	418
Statice	24	475
Sweet pea	26	127
Tangier scarlet	26	127
Sweet William	22	102
Thrift	24	475
Tiger-flower	26	623
Tigridia pavonia	26	623
Tritoma	27	79
Tulip	27	135
Victoria regia	28	75
Violet	25	105
growing	14	421
Waterlilies	22	211
Water-platter	28	75

See also **Botany.**

Fruits

Fruits — cont'd	Vol.	Page
Alligator pears	1	422
	12	137
	27	91
Almond	1	432
Apple	2	84
	14	418
antiquity of	2	84
appearance	2	84
by-products	2	88
crops of the world	2	85
custard	8	335
diseases	2	88
exportation	2	85
fertilizers	2	86
harvesting	2	88
insects	2	87
origin of	2	84
packing	2	85
production, centres of	14	418
propagation of	2	86
protection from mice and rabbits	2	88
soils	2	86
uses of	2	84
value of	2	85
varieties of	2	85
Apricot	2	101
Avocados	1	422
	12	137
	27	91
Banana	3	131
cooking	22	160
cultivation	3	131
Bilberry	27	635
Blackberry	4	39
Blackcap	23	221
Blueberry	27	635
Brazil nut	4	444
Cantaloupes	5	529
	18	607
Catawba grape	13	140
Chasselas grapes	13	143
Cherry	2	567
	6	418
	14	418
Citrus fruits	14	418
Concord grapes	13	141
Cooking banana	22	160
Cornichon grapes	13	143
Cowberry	27	635
Cranberry	8	153
	27	635
Cupania anacardioides	26	232
Currant	8	310
Custard apple	8	335
Date	8	490
plum	21	630
Delaware grapes	13	141
Dewberry	9	45
Dialium guineense	26	232
Emperor grapes	13	143
English walnut	28	244
Eumelan grapes	13	141
Fig	11	201
fertilization by insects	11	202
Indian	22	570
Filbert	14	23
Flame Tokay-grapes	13	143
Florida, fruit growing	11	371
Fox grape	13	144
Fruit	12	128
canning of	5	507
chemical composition of	12	130
citrus	12	131
	14	418
cold storage of	12	136
cultural practices	12	133
dry	12	128
export trade	12	133
fleshy	12	129
geographical distribution	12	132
growing	12	131
	14	417
as a business	14	419
commercial	14	419
in Canada	5	431
non-commercial	14	419
industry	12	132
	12	134
keeping of	12	130
marketing of	14	419
orchard	12	131
production in United States	14	418
production of	12	132
small	12	131
trees, pruning of	22	714
tropical	12	137
Fruticetum	4	306
Gooseberry	13	60
Grape	12	131
	13	140
	28	152
American, evolution of	13	144
belt, Chautauqua	13	142
Black Malvoisie	13	143
Catawba	13	140
Chasselas	13	143
Concord	13	141
Cornichon	13	143
culture	13	140
American	13	140
grafting	13	143
growth of, in Eastern States	13	141
in Lake Keuka district	13	141
on the Pacific Coast	13	142
practical	13	143
pruning and training	13	143
Delaware	13	141
Emperor	13	143
Eumelan	13	141
Flame Tokay	13	143
Fox	13	144
growing	14	418
insect-pests	13	145
Iona	13	141
Isabella	13	141
Mission	13	140
Muscat	13	143
propagation	13	143
Rose of Peru	13	143
summer	13	141
Thompson's seedless	13	143
vine, diseases	13	144
grafting	13	143
pruning	13	143
training	13	143
Grape-fruit	13	146
	14	419
Grossularia	13	60
oxyacanthoides	13	60
Hazelnut	14	23
American	14	23
European	14	23
Huckleberry	14	467
	27	635
Iona grapes	13	141
Isabella grapes	13	141
Jujube	12	138
Kieffer pear	21	452
Kumquat	16	555
Lemon	14	419
	17	281
	18	747
Lime	17	441
Loganberry	17	596
Lotus	12	138
Mangoes	12	138
	18	212
Melons	18	607
Mission grape	13	140
Musaceæ	22	160

Fruits — cont'd	Vol.	Page
Musaparadisiaca	22	160
Muscat grapes	13	143
Muskmelon	18	607
	22	183
Nectarines	14	418
	20	38
	21	446
Northern Ohio vineyards	13	142
Nuts	20	521
Orange	14	418
	18	747
	20	724
	22	180
and orange culture	20	724
Bergamot	20	725
kid-glove	20	725
king	20	725
mandarin	20	725
Otaheite	20	725
Satsuma	20	725
Seville	20	725
tangerine	20	725
three-leaved	20	725
trifoliate	20	725
Orchard	20	739
Paradise nuts	24	292
Pawpaw	12	137
Peach	14	418
	21	446
Indian	21	446
North China	21	446
Persian	21	446
Peen-to-race	21	446
producing States	14	418
smooth-skinned	21	446
South China	21	446
Spanish	21	446
Pear	14	418
	21	452
Bartlett	21	452
Chinese sand	21	452
Kieffer	21	452
Prickley	22	569
Seckel	21	452
Pecan	21	461
Indiana	21	461
Major	21	461
Niblack	21	461
Posey	21	461
Schley	21	461
Stuart	21	461
Van Deman	21	461
Pentaclethra filamentosa	26	232
Persimmon	21	630
Philadelphus	26	193
Picotee	22	102
Pigeon-pea	22	80
Pineapple	18	747
	22	99
Pippin	22	113
Pithecolobium dulce	26	232
Plantain, Adam's fig	22	160
Plums	14	418
	22	182
Pomegranate	22	340
Pomelo	13	146
Pomology	14	417
	22	342
Porto Rico fruit industry	22	401
Prickley pear	22	569
Prune	14	418
	22	713
growing	22	713
orchards	22	713
packing	22	713
Pruning	22	714
	28	154
Pummelo	13	146
Raspberry	14	419
	23	221

Fruits — cont'd	Vol.	Page
black	23	221
European	23	221
red, pruning of	23	222
Rose of Peru grapes	13	143
Rubus	23	750
canadensis	9	45
occidentalis	23	221
villosus	9	45
Septoria ribis	13	60
Shaddock	13	146
	24	637
Sphœrotheca mors-uvæ	13	60
Strawberries	14	419
	25	721
Summer grape	13	144
Sweet sop	26	128
Tamarind	26	232
Tamarindus indica	26	232
Tamarisk mannifera	26	233
Thompson's seedless grapes	13	143
Tropical fruits	12	137
Vacciniaceæ	27	684
Vine-growing	28	152
Vines resistant	13	144
Vineyards in Northern Ohio	13	142
Watermelon	18	608
	22	185
Whortleberries	27	685
See also under **Botany — Economic Botany,** and under **Agriculture — Crops, Fruits, Grasses,** etc.		

Vegetables

Vegetables — cont'd	Vol.	Page
Apiaceæ	21	348
Artichoke	2	357
	5	603
Asparagus	2	402
Aubergine	9	728
Barbarga vulgaris	23	599
Bean	3	377
	4	435
	22	185
Beans, green	14	420
string	21	436
Beet	3	431
Brussels sprouts	4	644
Cabbage	5	115
	14	420
	22	181
transplanting of	27	8
white rust of	22	167
Carrot	5	674
	22	183
Cauliflower	6	130
	22	181
Celery	22	183
Chenopodiaceæ	24	108
Corn	7	698
	11	24
sweet	7	698
	14	420
Cress	8	182
	24	176
Cucumber	8	290
	22	183
Cyphomandra betacea	26	680
Dill	9	121
Egg plant	9	728
	14	420
Endive	10	320
	24	176
Eruca sativa	23	599
Glass, use of, in vegetable growing	14	419
Green vegetables, production of, for canneries	14	420

Vegetables — cont'd	Vol.	Page
Guinea squash	9	728
Horseradish	14	415
	23	127
Kale	14	420
	16	282
Kidney bean	16	401
Lettuce	14	420
	17	325
	22	184
	24	176
Lycopersicon lycopersicon	26	680
Lycopersicon pimpinellifolium	26	680
Mustard	19	655
home-salad	24	176
Onions	2	63
	20	690
Parsley	21	347
Parsnip	21	348
	22	183
Pastinica sativa	21	348
Pea	14	420
	21	485
field	21	436
French	21	436
green	21	436
marrowfat	21	436
split	21	436
Peanut	21	451
Peppermint	21	566
Petits Pois	21	436
Pie plant	23	478
Pigeon-pea	22	80
Physalis alkekengi	26	680
Physalis pubescens	26	680
Potato	14	420
	22	444
late blight of	22	167
methods of propagation	22	444
plant diseases	22	445
sweet	14	420
	26	127
Pumpkin	22	800
Radish	22	181
	23	126
Rhubarb	23	478
Rice	22	185
	23	486
Rocket	23	599
Roquette	23	599
Sage	24	108
Salad plants	24	176
Salsify	24	197
black	24	197
Salsilla	24	197
Savory	24	332
cabbage	24	331
Scorzonela hispanica	24	197
Salanaceæ	22	444
	26	680
Solanum tuberosum	22	444
Spinach	14	420
	25	410
Squash	25	463
String-beans	21	436
Sweet corn	7	698
	14	420
Sweet potatoes	14	420
	26	127
Tomato	14	420
	26	680
cherry	26	680
currant	26	680
husk	26	680
plum	26	680
strawberry	26	680
tree	26	680
Truck growing	14	420

Vegetables — cont'd Vol. Page
Trucking regions, principal 14 420
Vegetable garden, home. 14 420
Vegetable growing..... 14 419
Vegetables, food, value of 27 719
Vegetables, green, production of for canneries 14 420
Watercress 8 182
Winter cress..... 23 599
Yellow rocket..... 23 599
24 176
See also under **Botany — Economic Botany**, and under **Agriculture — Crops, Fruits, Grasses, etc.**

Landscape Architecture and Gardening

Babylonian Gardens.... 16 708
Boboli Gardens..... 4 188
Bois de Boulogne; park in Paris..... 21 315
Bois de Vincennes in Paris 21 315
Central Park..... 6 209
Champs Elysées..... 21 315
Chickamauga National Military Park..... 6 454
City planning..... 6 718
block and zone system 6 722
principles of..... 6 719
Civic centre..... 6 720
Civic embellishment.... 6 721
Crater Lake National Park 8 162

Landscape Architecture, etc.— cont'd Vol. Page
Delacroix Fountain..... 21 314
Fountain de Médicis.... 21 314
Fountain of Saint Sulpice 21 314
Fountaine de la Victoire 21 314
Garden cities..... 12 282
Hadrian's Villa..... 16 708
Hanging Gardens..... 16 708
Hyde Park..... 14 538
Japanese landscape designing 14 421
Jardin des Plantes..... 21 315
Jardin du Luxembourg.. 21 315
Landscape architecture.. 16 707
Landscape architecture among Egyptians..... 16 708
Landscape architecture in Middle Ages..... 16 708
Landscape architecture, professional practice of in America..... 16 710
Landscape architecture, typical problems of... 16 710
Landscape art..... 14 421
Landscape design, historic styles of..... 16 708
Niagara International Park 20 298
Palisades Interstate Park 21 206
Parterre 21 352
Place de la Concorde Fountains 21 314
Pliny's Laurentine..... 16 708
Saint Michael Fountains in Paris..... 21 314
Shaw's Garden..... 24 148
Trees for street planting 22 208
Tusculan villas..... 16 708

Biographies Vol. Page
Adlum, Major John..... 13 140
Bartram, John..... 13 432
Brown, Lancelot..... 4 609
Burbank, Luther..... 5 203
Cooper, Ellwood..... 7 634
Corbett, Lee Cleveland.. 7 679
Dilke, Sir Charles Wentworth 9 120
Dufour, John James.... 13 140
Duilhier, Nicholas Facio 13 432
Espalier 10 501
Gibbs, Isabella..... 13 141
Grant, C. W..... 13 141
Hansen, Niels Ebbesen.. 13 685
Haraszthy, Agoston.... 13 142
Henderson, Peter..... 14 94
Hovey, Charles Mason.. 14 451
Juhlke, Ferdinand..... 16 240
Kendrick, William..... 16 360
Knight, Thomas Andrew 16 482
Legaux, Pierre..... 13 140
Longworth, Nicholas... 13 140
17 648
Munson, Thomas Volney 13 144
19 596
Olmsted, Frederick Law 20 669
Olmsted, Frederick Law (2nd) 20 670
Olmsted, John Charles.. 20 670
Pray, James Sturgis.... 22 515
Prince, William..... 13 144
Printz, John..... 13 140
Switzer, Stephen..... 13 432
Wilder, Marshall Pinckney 29 312

INSURANCE

General

Abandonment 15 200
Abordage 15 200
Acceptance 15 200
Actuary 1 113
15 200
Adjustment 1 141
Agreement 15 201
Allotments and Allowances 28 686
Annuity 2 1
15 201
Assessment 15 201
Automobile insurance.. 2 665
Average bond..... 15 201
Barratry 15 201
Casualty 15 201
Coinsurance 15 201
general use of..... 11 239
Compensation insurance. 29 522
Compensations and indemnities 28 686
Constructive total loss.. 15 201

General — cont'd
Credit insurance..... 15 176
Decrement 15 201
Deferred insurance..... 15 201
Deviation 15 201
Double insurance..... 15 201
Endowment 15 201
Factory mutual plan.... 11 241
Floating policy..... 15 201
Fraternal insurance.... 15 177
Ghent system of unemployment insurance .. 16 599
Graveyard insurance.... 15 201
Group insurance..... 13 493
Guaranty insurance 13 514
Health insurance..... 14 32
benefits 14 33
commercial 14 32
compulsory 14 33
growth 14 34
movement in United States 14 34
mutual 14 32

General — cont'd
Individual underwriting 11 241
Industrial insurance.... 15 179
Industrial insurance, welfare work..... 15 185
Insurable interest..... 15 201
Insurance 15 175
15 201
benefits of..... 14 33
brokers 4 675
burglary 5 40
credit 15 176
deferred 15 201
double 15 201
economies of..... 15 196
for benefit of wife and children..... 15 190
fraternal 15 177
characteristics... 15 177
new standards.. 15 179
whole family protection 15 179

General — cont'd	Vol.	Page
industrial	15	179
	25	161
intermediate policies	15	185
its relation to the World War	15	185
mutuality	15	182
mortality	15	182
for children	15	183
policy contracts	15	181
international	15	186
science of	15	196
patrol	15	199
tax	15	200
terms	15	200
voluntary	15	197
Interinsurer	11	242
International insurance	15	186
Labor insurance	25	161
Loss, amount of	15	201
Medico-Actuarial Mortality Investigation	15	182
Northampton Table of Mortality	2	2
Open policy	15	201
Old age insurance	20	648
Australia	20	651
Austria	20	651
Belgium	20	651
Denmark	20	650
France	20	651
Germany	20	651
New Zealand	20	651
United States	20	651
Old age pensions	20	648
Partnership policy	15	201
Perpetuity	2	1
Plate glass insurance	22	228
Responsibility of industry	14	33
Schedule rating	11	239
Sickness insurance	14	32
Social health insurance	14	33
Social insurance	25	161
development in United States	25	163
divisions of	25	161
Standard policy	11	238
Subsidized insurance	14	33
Suretyship	26	61
Surrender	15	201
Term insurance	15	201
Time policy	15	201
Title insurance	26	651
Tontine	26	689
policy	15	201
Total loss	15	201
Underwriter	27	276
Unemployment insurance, Ghent system	16	599
Valued policy	15	201
Voyage policy	15	201
Wager policy	15	201
War risk insurance	28	684
	28	686
Weekly premium	15	180
Workingmen's insurance	12	580
	25	161
Workmen's compensation in United States	29	520
	29	521

Accident

Accident insurance	1	70
growth	1	71
Casualty	15	201
Compensation insurance	29	522
Employers' liability	10	303
Workmen's compensation	29	520

Accident — cont'd	Vol.	Page
See also Insurance — General.		

Fire

Adoption of standard policy	11	238
Co-insurance, general use of	11	239
Co-operation through underwriters' association	11	240
Fire insurance	11	236
Inspection systems improved	11	239
Insurance patrol	15	199
National Board of Fire Underwriters	11	238
	11	245
Schedule rating	11	239
Standard policy, adoption of	11	238
State regulation	11	240
See also Insurance — General.		

Life

Actuaries' table	15	188
American table	15	188
Assessment companies	15	188
Caisse Lafarge	26	689
Carlisle table	15	188
Commercial life insurance	7	392
Companies, class of	15	187
Dividends	15	190
Endowment	15	201
Farr's tables	15	188
Floating policy	15	201
Form of contract	15	189
Fraternal and benevolent societies	15	188
Fraternal insurance	15	177
Government insurance rates	28	689
Industrial insurance	15	188
Insurable interest	15	187
Insurance contracts, termination of	15	190
Insurance, life	15	186
Insurance, post-office life	15	197
Joint-life policy	15	201
Legal reserve	15	189
Legislation and supervision	15	191
Life insurance	15	186
as a science	15	191
commercial	7	392
expense	15	189
post-office	15	197
statistics	15	192
sub-standard	15	191
theory of	15	191
Limitation of the risk	15	191
Medical examinations	15	191
Moral hazard	15	191
Mortality tables	15	188
Old-age insurance	20	648
Old-age pensions	20	648
Open policy	15	201
Policy loans	15	190
Premium insurance	15	188
Premiums	15	189
Substandard	15	191
Termination of contract	15	190
War risk insurance	28	684
	28	686
See also Insurance — General.		

Marine

American marine insurance	15	194
Barratry	15	201
Insurance, marine	15	193
	18	295
Lloyd's	17	550
Lloyds Associations	11	241
Lloyds of London	15	194
Lloyd's Register	17	550
Loss, amount of	15	201
Marine insurance	18	295
Voyage insurance	15	201
Voyage policy	15	201
See also Insurance — General.		

Societies and Companies

Amicable Society (1696)	15	187
Approved societies	14	34
British Industry Life Insurance Company	15	180
English Prudential Company	15	180
Friendly societies	14	34
Germania Life Insurance Company	15	180
Hand-in-Hand of London	11	237
Insurance Company of North America	15	187
John Hancock Mutual Life Insurance Company	11	237
Joint-stock companies	11	242
Joint-stock fire insurance companies	11	237
Live-stock Insurance Company	14	304
Local mutuals	11	241
Loyal American Life Association	17	705
Metropolitan Life Insurance Company	15	180
Mutual Assurance Company	11	237
Mutual Life Insurance Company	15	187
Prudential Assurance Company	15	180
Reciprocal underwriters' associations	11	242
Underwriters' associations	11	240
Underwriters' laboratories	11	246

Control Agencies

Improved inspection systems	11	239
Insurance Law	15	198
Insurance patrol	15	199
Insurance supervision	15	200
National Convention of Insurance Commissioners	15	179
State regulation of fire insurance	11	240

Biographies

De Lanoy, William C.	28	684
Dryden, John Fairchild	9	365
Duer, John	9	386
Lloyd, Edward	15	194
McCall, John Augustin	18	20
Morris, Corbyn	15	196
Paterson, John Sherman	21	300
Perkins, George Walbridge	21	600
Pierson, Israel Corlell	22	77

IRON AND STEEL

General	Vol.	Page
Air-gate	1	288
Air-hole	1	289
Armor-piercing projectiles	2	273
Armor plate	2	275
bending and planing	2	276
cementation process.	2	276
dry carbon process.	2	276
final test	2	277
gas carbonizing process	2	276
hardening	2	277
Harvey process	2	275
Krupp process	2	275
manufacture	2	276
Schneider process	2	275
Bath brick	4	551
Bearing, anti-friction	3	382
Bearings, ball	3	383
roller	23	636
Blast furnace	4	64
practice	4	66
Blow-hole	1	289
Bog iron ore	4	153
Bronze steel	4	586
Case-hardening	5	698
	15	99
Cast iron, gray, combined carbon in	15	387
gray, micro-structure of	15	387
malleable	5	714
microstructure of	15	387
pipe	22	107
products of refining	15	366
refining of	15	366
white, microstructure of	15	387
Cast steel	5	715
Chains and chain-making	6	246
Chill mills	6	510
Chilled iron	6	511
Chromic iron	6	632
Chromite	6	632
Chromium	6	632
Cold bend	15	100
Corrugated iron	8	21
Damascus twist	8	427
Dead melting	15	100
Dip crank	15	100
Drawn	15	101
Drop forging	18	54
Durham furnace	15	371
Ferrite	15	383
Fettling	15	101
Files and file-making	11	206
Forging machines	18	55
Founding	11	541
loam molding	11	541
sand molding	11	541
Foundry and forge shop terms	11	542
Foundry practice	11	544
bedding in with a cope	11	546
casting	11	544
chilling	11	547

General — cont'd	Vol.	Page
iron for castings	11	547
jobbing castings	11	546
machinery castings.	11	546
melting iron	11	547
molding	11	545
bedding-in	11	546
bench	11	545
floor	11	545
loam	11	547
molds, dry sand	11	546
skin dried	11	546
Foundry terms	11	544
air-gate	11	544
angles	11	542
annealing	11	542
bars	11	542
battering-off	11	543
bead slickers	11	543
bead tools	11	543
bedding-in	11	543
binders	11	543
blackening	11	543
black wash	11	543
blast	11	543
blowers	11	543
blowholes	11	543
bottom board	11	543
burning off	11	543
burning on	11	543
case hardening	11	543
chaplet	11	543
charging	11	543
chart method	11	543
chills	11	543
cinder bed	11	543
clamping	11	543
cleaning	11	543
cleaning-up	11	543
closing-up	11	543
coke bed	11	543
cold shuts	11	543
cope	11	543
core	11	543
drag	11	543
drawing	11	543
of temper	11	543
drop forging	11	543
fagoting	11	543
feeding	11	543
flask	11	543
floor rammer	11	543
fluxes	11	543
forge	11	543
founding	11	544
gaggers	11	543
gate	11	543
hardening	11	544
lifting	11	544
loam work	11	544
match plate	11	544
mold boards	11	544
molding	11	544
sand	11	544
tools	11	544
nowel	11	544
odd sides	11	544
parting	11	544
pouring	11	544

General — cont'd	Vol.	Page
print	11	544
rapping	11	544
riddle	11	544
riser	11	544
sprue	11	544
tempering	11	544
venting	11	544
Gray pig	15	102
Guns	13	556
Hot short	15	103
Iron and steel industry in the United States	15	370
Iron and steel, metallography of	15	382
Iron	10	190
	15	361
cast, refining of	15	366
chemically	15	361
chromic	6	632
Damascus	8	427
ferric compounds	15	362
ferrous compounds	15	362
founding	15	368
carbon	15	368
chemistry of	15	368
manganese	15	370
phosphorus	15	369
silicon	15	369
sulphur	15	370
industry of United States	15	370
manufacture of	15	362
blast furnace	15	363
primitive or direct methods	15	363
products of blast furnace	15	365
metallography of	15	382
ore, bog	4	153
districts	15	381
imports and exports by United States	15	375
Lake Superior shipments by ranges	15	376
production by countries	15	375
production in Lake Superior district	15	375
supplies of the world	15	380
ores	15	379
by kinds	15	376
mining and handling	15	381
origin of	15	379
pig, boiling process.	15	367
pig, importations and exportations of, by United States	15	377
pig, production of, by countries	15	376
production in tons	15	365
products of blast furnaces	15	365
puddling process	15	367

General — cont'd	Vol.	Page
pure, microstructure of	15	382
skeleton construction	15	382
works in United States, first	15	371
wrought	15	366
Lathes	18	696
Lute	15	103
Machinery manufacturing industry in the United States	18	78
Machine shop	4	524
Machine forging	18	53
Metal bending rolls and benders	18	698
Metal borers or drills	18	697
Metal drop hammers	18	698
Metal grinders	18	697
Metal lathes	18	696
Metal planers	18	698
Metal presses	18	698
Metal punches	18	697
Metal riveters	18	697
Metal rolling machines	18	698
Metal saws	18	698
Metal shears	18	697
Metal milling machines	18	697
Metal working machinery	18	59
	18	696
Metals pure, microstructure of	15	382
Muffler	15	103
Nail industry	13	701
Nails	19	682
Nickel steel	20	322
	25	595
Nobling	15	103
Pearlite	15	384
Pig	15	104
Pig iron, imports and exports of United States	15	377
production according to fuels	15	378
production by countries	15	376
production by grades	15	377
production by States	15	376
Pipe	22	107
cast iron	22	107
couplings	22	108
locking bar	22	108
manufacture of	22	107
methods of manufacture	22	107
spiral-riveted	22	108
spiral-welded	22	108
varieties of	22	108
wrought iron	22	107
Platinite	20	323
Plus thread	15	104
Pot metal	15	104
Quenched steel	15	104
Rabbling	15	104
Rag bolt	15	104
Railway cars	23	142
Rails and structural shapes	23	138
Red short	15	104
Regenerating furnace	15	104
Riveting shop	4	524
Rolling machines	18	698
Rolling mills	23	636
Rumble	15	104
Rust	24	65
joint	15	104
Safe doors	24	102
Safe industry in America	24	102
Safes, laminated construction	24	102

General — cont'd	Vol.	Page
Safety plug	15	104
Sparable	17	199
Spiegeleisen	25	410
Steel	10	190
	25	362
alloy	4	583
electrical conductivity of	25	593
vanadium	25	593
alloys, chemical constitution of	25	295
Molybdenum	25	592
special properties of iron	25	594
basic Bessemer	25	573
Bessemer process	25	563
of to-day	25	565
roll of honor	25	566
bridge trusses	4	517
cables, galvanized	29	415
car industry	25	600
Clapp-Griffiths Bessemer	25	565
Colby and Kjellin processes	25	569
crucible, furnaces and fuels	25	577
grading the ingots	25	579
ingots	25	578
manufacture of	25	576
materials	25	577
melting	25	578
crucibles	25	577
electrical process of manufacture	25	566
evolution of steel-making process	25	570
hawsers galvanized	29	415
heat, treatment of	25	575
Heroult process	25	568
high carbon, microstructure of	15	385
high speed	25	593
indirect method for production of	15	366
industry of United States	15	370
ingot production in United States	15	377
low carbon, microstructure of	15	384
manganese	25	595
medium high carbon, microstructure of	15	385
metallography of	15	382
nail mill	25	606
nickel	20	322
	25	595
open hearth	25	574
basic practice	25	584
castings	25	584
fuels and accessories	25	581
furnace operation	25	582
furnaces	25	580
manufacture	25	579
production	15	377
Robert process	25	565
skeleton construction for buildings	4	702
special or alloy	25	591
Stassano process	25	567
structural, cleaning	25	587
paint	25	587
painting	25	589
preservation of	25	586
testing of	25	596
theories of hardening	25	598
tropenas	25	565

General — cont'd	Vol.	Page
tubing	25	603
history of	25	604
technology	25	604
wire and nail-making	25	605
wire and nails, billet yard	25	605
wire, barbed	25	606
drawing	25	606
finishing mill	25	606
physical properties	25	605
roughing mill	25	606
wool	25	607
Stripping	15	104
Tempering	15	105
	26	405
Trebles	15	105
Tup	15	105
Tuyere	15	105
United States Steel Corporation	27	563
Upsetting machines	18	55
Welding	29	177
electric	10	147
gas (oxy-acetylene)	29	177
Wind furnaces	4	418
Wire and wire drawing	29	410
Wire cloth	29	411
fence	11	112
gauges	29	413
manufacture, commercial gauges	29	409
manufacture of	29	407
rope	29	414
dimensions and durability	29	414
flattened strand	29	415
Hercules	29	415
non-spinning	29	415
tramways, aerial	29	415
Wrought iron, finery methods for production of	15	366
indirect methods for production of	15	366
microstructure of	15	383
pipe	22	107
puddling process	15	366
wet or pig boiling puddling process	15	367

Biographies

Bessemer, Sir Henry	3	587
Brinkinbine, John	15	374
Budd, James Palmer	15	364
Burden, Henry	5	34
	15	373
Burt, William A.	15	373
Carnegie, Andrew	5	632
Clarke, Thomas	15	371
Cooper, Peter	7	637
	15	374
Cort, Henry	8	25
	15	367
Cowper, E. H.	15	364
Darby, Abraham	15	364
	25	572
Durfee, William A.	15	374
Frick, Henry Clay	12	101
Fritz, John	12	113
Griswold, John Augustus	13	482
	15	374
Hall, Joseph	15	367
Hassall, William	15	374
Holley, Alexander Lyman	14	319
	15	374
Howe, Henry Marion	14	435
	15	367
Jenks, Joseph	15	371

Biographies — cont'd	Vol.	Page
Keep, William John	16	334
Keith, Sir William	15	372
Kelly, William	16	344
Krupp, Alfred	16	547
Krupp, Friedrich	16	548
Krupp, Friedrich Alfred	16	548
Leonard, H. Ward	17	302
Messon, Isaac	15	373
Morgan, J. Pierpont	19	452
Mushet, Robert	25	566
Neilson, James Beaumont	15	364
	20	62
Perry, Benjamin	25	572
Phipps, Henry	15	373
Reeves, Samuel J	21	782
Roebling, John Augustus	15	374
	23	625
Sauveur, Albert	24	321
Schneider, Charles Conrad	24	383
Schwab, Charles M	24	409
Siemens, Sir Karl Wilhelm	24	793
Swank, John Moore	15	367
	26	110
Swedberg, Emmanuel	26	112
Swedenborg, Emmanuel	15	372
	26	112
Thomas, David	15	374
Winslow, John F	15	374
Winthrop, John	15	371
	29	406
Winthrop, John, Jr	15	371

LABOR

General	Vol.	Page
Accidents, industrial	1	71
mining	19	149
railway, and legislation regarding	1	73
steamship	1	74
Adamson Act	27	326
Agents	15	83
Arbitration, industrial	2	139
American	2	141
British	2	140
Canadian	2	140
French	2	139
German	2	139
New Zealand	2	140
Norwegian	2	141
Swedish	2	141
Australian Labor Party	2	610
Blind-alley job	15	106
Bolivian, labor	4	184
Canadian labor legislation	5	476
Canadian labor movement	5	474
Certifying surgeons, British	13	291
Chapel	6	295
Chartism	6	340
	13	285
Child labor	6	461
effects of	6	463
extent of	6	462
remedies for	6	463
Children's bureau	6	486
Chilean labor	6	505
Christian Socialists, British	13	289
Collective bargaining, British	13	283
Contract labor	7	598
Convict labor	7	614
Coolie	7	633
labor, Chinese	7	633
labor in America	7	633
labor in India	7	633
Co-operative movement in Great Britain	13	287
Co-operative stores	16	611
Copartnership tenants' movement, British	13	289
Daylight saving	8	520
Day nurseries	8	520
	16	612
Domestic workshops, English	13	291
Education of labor	16	612
Eight-hour Day	10	27
Eight-hour Law	10	28
Employers' associations	10	302
Employers' liability	10	303
Employment bureaus	10	304
Employment management	10	306
Employment manager	10	306
Factories and factory inspection	10	699
Factory legislation, British	13	283
	13	289
Factory management	10	702
Factory system	10	705
	25	510
advantages of	10	706
evils of	10	706
Farm labor	11	25
Federal mediators, American	2	141
Fifty-eight-hour Law	10	700
Free enquirers	12	43
Friendly benefits, British	13	282
Government by injunction	13	92
Great Britain, labor movement in politics	13	285
trade unionism	13	281
Haymarket Square riot	14	20
Health and morals of Apprentices Act of 1802, British	13	280
	13	290
Health, sanitation and safety	16	611
Homestead Act	16	602
Homestead riots	14	338
Independent Labor Party, British	13	284
Industrial accidents, legislation	1	72
Industrial administration	15	90
Industrial distribution	15	81
Industrial fatigue	15	84
Industrial housing in the United States	15	85
Industrial hygiene	15	87
Industrial organization	15	90
administration of personal relations	15	92
Industrial peace	15	93
Industrial pensions	21	549
Industrial relations commissions	15	96
Industrial schools	15	98
Industrial workers, education and training of	15	105
Industries, welfare work in	15	110
Industry, democracy in	10	703
Institutes of trade	15	81
Insurance, industrial	15	179
mutual	13	283
Labor	16	589
administration agencies	16	597
and commerce	16	592
and scientific management	24	420
Bolivian	4	184
bureau, first	25	510
bureaus	16	591
Canadian, history of	5	474
church	16	592
colonies	16	592
congress	16	592
congress of Canada	5	475
Day	16	593
demands of	27	291
Department of	16	591
departments, foreign	16	593
development of plant spirit	16	612
discouraging overtime	15	84
division of	9	205
economic views of	16	591

General — cont'd	Vol.	Page
educational	16	612
exchanges	16	598
free and slave	16	590
hard	13	696
housing	16	612
Labor hours, adjusting of	15	84
Labor laws, State and Federal	16	594
Labor legislation	16	598
Australian	16	600
Austrian	16	599
Belgian	16	599
Canadian	5	476
foreign	16	597
French	16	598
German	16	598
Great Britain	16	597
history of	16	593
Holland	16	599
International Association for	16	600
New Zealand	16	600
recognition of the Union	16	595
Scandinavian	16	599
special	16	595
Swiss	16	599
Labor movement in America	16	600
Labor movement in British politics	13	285
Labor movement in Canada	5	474
Labor Party	16	608
Australian	2	610
Labor, right to organize	16	601
solidarity of	25	736
Labor turnover	16	608
computing	16	609
computing costs	16	610
cost of	16	609
methods of reducing	16	610
Labor union, American	16	612
benefits	16	613
Labor unions	16	612
	27	115
centralization of	16	613
legal status	16	614
membership	16	613
necessity for	27	291
Labor vote	28	190
Larkinism	16	750
Life extension	17	411
Lockout	17	562
Lunchroom	16	611
Mercantilists	16	591
Minimum wage	19	172
	25	511
Mining, laborers employed	19	172
Motion studies, value of	15	85
Night-work, bad effects of	15	84
Old-age insurance and pensions	20	648
Organized labor	15	90
Overtime, discouraging	15	84
Pensions, industrial	21	549
Peonage	21	558
Peons	21	558
People's charter	6	340
	13	285
Physiocrats	16	590
Picketing	25	736
Premium plan	22	531
Profit sharing	22	633
Protocol, industrial	22	690
Radical labor movement	25	182
Rest periods	15	85
Sabotage	24	85
Safety devices	1	72

General — cont'd	Vol.	Page
Sanitation and ventilation	15	85
Serfs	24	591
Servitude	24	605
Slavery	25	88
Slavery in the United States	27	391
Social insurance	25	161
development in the United States	25	163
Social legislation	25	164
Standard minimum conditions, common rule of	13	283
Strikes and lockouts	25	735
Strike benefits	5	474
Strikes, causes of	25	735
history of	25	736
industrial	26	121
methods of conducting	25	736
statistics of	25	736
sympathetic	25	736
Suggestion box	16	612
Sunday work, eliminating	15	84
Sweated trades	13	291
Sweating	13	282
Sweatshop system	10	701
Syndicalism	26	171
Thrift, promotion of	16	611
Trade unionism	25	182
British	13	281
Canadian	5	474
development of	25	181
German	8	646
Trade unions	26	763
	27	291
Truck system	27	102
Unemployment	16	596
	27	277
Union label	27	287
Union, recognition of	16	595
Unionism	27	290
Unions	27	109
centralized	27	109
financial	27	109
higher types of	27	109
nationalization of	16	603
simplest form of	27	109
Unity system of organization	27	568
Vocational education	28	160
Vocational guidance	28	161
Wages	28	208
increases in	15	540
minimum	19	172
	25	511
State control of	25	511
Walking delegate	28	232
War Labor Board	28	681
Women in industry	29	458
Women's organizations	16	614
Workers, protection for	16	612
Workers, providing seats for	15	85
Workingmen's insurance, German	12	580
Workmen's compensation	29	520
in United States	29	521
Workshop committees	29	523

Organizations, Boards, etc.

Organizations, Boards, etc. — cont'd	Vol.	Page
Amalgamated Cotton Spinners	13	282
Amalgamated Labor Union	1	518
Amalgamated Society of Engineers	13	282
American Association for Labor Legislation	1	499
American Federation of Labor	1	517
	5	475
	16	613
Barbers' International Union of America, Journeymen	5	475
Bricklayers, Masons and Plasterers' International Union of America	5	475
Bridge Building Brotherhood	4	506
Brotherhood of Locomotive Engineers	23	160
Brotherhood of Locomotive Firemen	23	161
Brotherhood of Railroad Trainmen	23	161
Brotherhood of Railway Carmen	23	161
Canadian Brotherhood of Railway Employees	5	474
Canadian Federation of Labor	5	449
	5	474
Canadian Federal Councils	5	475
Canadian Local Unions	5	475
Canadian Trades and Labor Councils	5	475
Carpenters and Joiners of America, United Brotherhood of	5	475
Car Workers International Association	23	161
Central International Craft Organizations	5	475
Central Labor Body	5	474
Cigar Makers' International Union	16	613
Communist League	16	592
Co-operative Production Federation	13	289
Co-operative Union	13	289
Co-operative Wholesale Society of England	13	288
Electrical Workers, International Brotherhood of	5	475
Equitable Labor Exchange	13	288
Federation of Engineering and Shipbuilding Trades	13	284
Federation of Labor, American	1	517
	5	475
	16	613
Federation of Organized Trades and Labor Unions of the United States and Canada	1	518
Industrial Congress	16	602
Industrial Council	2	140
Industrial Workers of the World	15	110
International Association for Labor Legislation	16	600
International Association of Car Workers	23	161
International Brotherhood of Maintenance of Way Employees	15	251
	23	161
International Co-operative Alliance	13	289
International Workingmen's Association	15	266

Organizations, Boards, etc.— cont'd	Vol.	Page
I. W. W.	14	614
Knights of Industry	1	518
Knights of Labor	1	518
	5	474
	16	485
	25	620
Labor Association	13	289
Labor Bureaus	16	591
Labor Congress	16	592
Labor Exchanges	16	593
Labor organizations:		
Australian	16	608
Austro-Hungarian	16	607
Belgian	16	607
foreign	16	613
French	16	607
German	16	606
Great Britain	16	606
Holland	16	607
Italian	16	607
New Zealand	16	608
Russian	16	607
Scandinavian	16	608
Swiss	16	608
Labor Union, American	16	612
Labor unions	16	612
benefits	16	613
	27	115
centralization	16	613
legal status	16	614
membership	16	613
Local unions	5	475
Locomotive Engineers, Brotherhood of	5	475
	23	160
Locomotive Firemen and Enginemen, Brotherhood of	5	475
Locomotive Firemen, Brotherhood of	23	161
London Tailors	13	282
Longshoremen International Association	5	475
Machinists, International Association of	5	475
Maintenance of Way Employees, International Brotherhood of	5	475
	23	161
Master Car Builders' Association	5	579
Mechanical Trackmen	23	161
Mechanics' Union of Trade Associations	16	601
Mine Workers of America, United	19	155
Miners' Federation	13	284
Molly Maguires	19	329
Musicians, American Federation of	5	475
National Child Labor Committee	6	463
National Labor Union	1	518
National Women's Trade Union League	16	604
North of England Co-operative Wholesale Society	13	288

Organizations, Boards, etc.— cont'd	Vol.	Page
Oldham Co-operative Societies	13	289
Owenite Communities	13	289
Painters, Decorators and Paperhangers of America, Brotherhood of	5	475
Plumbers and Steam Fitters of America, United Association of	5	475
Provincial Conference Board of Ontario of the Bricklayers', Masons' and Plasterers' International Union	5	475
Provincial Workmen's Association of Nova Scotia	5	474
Railroad Freight Handlers	23	161
Railroad Signalmen	23	161
Railroad Station Agents	23	161
Railroad Telegraphers, Order of	23	161
Railroad Trainmen, Brotherhood of	5	475
	23	161
Railway Brotherhoods	23	160
Railway Carmen, Brotherhood of	23	161
Railway Clerks' Association, National	23	161
Railway Conductors, Order of	23	161
Railway Employees, Union of All	23	161
Railway Expressmen	23	161
Railway Express Messengers	23	161
Railway labor organizations and brotherhoods	23	160
Railway Station Employees	23	161
Redemptionist Societies	13	289
Rochdale Society of Equitable Pioneers	13	288
Scottish Co-operative Wholesale Society	13	288
Silkweavers	13	282
Stonecutters' Association of North America, Journeymen	5	475
Street and Electric Railway Employees	23	161
Switchmen's Union of North America	23	161
Trade unionism	25	182
British	13	281
Canadian	5	474
Germany	8	646
Trade unions	26	763
	27	291
Trade Unions, General Federation of	26	764
Trade union movement	1	519
Typographical Union	5	474
Typographical Union, International	5	475
	27	244
Typothetæ	27	244
Unionism	27	290

Organizations, Boards, etc.— cont'd	Vol.	Page
Union of All Railway Employees	23	161
Unions	27	109
United Baking Society of Glasgow	13	289
United Mine Workers	16	613
United Mine Workers of Alberta and British Columbia	5	475
United Mine Workers of America	5	475
	27	304
United States Board of Mediation and Conciliation	2	141
Western Federation of Miners	29	221
White Boys	29	269
Whitley's Industrial Councils	29	523
Woman's Co-operative Guild	13	289
Women's Labor Organizations	16	614
Woolcombers	13	282
Woolen Workers of Southwest England	13	282
Wool Staplers	13	282
Workingmen's Clubs	29	519
Working-women's Clubs	29	519

Biographies

Bayley, Thomas Butterworth	13	289
Blanc, Jean Joseph Louis	4	58
	16	599
Broadhurst, Henry	4	568
Burns, John	5	59
	13	286
Burt, Thomas	5	67
Donnelly, Samuel Bratton	9	259
Duncan, James	9	400
Engel, George	14	20
Ettor, Joseph J	10	557
Gompers, Samuel	13	42
Hardie, James Keir	13	286
	13	698
Howarth, Charles	13	288
Hyndman, Henry Mayers	13	286
	14	600
Keefe, Daniel J	16	332
Larkin, James	16	750
Lennon, John Brown	17	286
Lynch, James Mathew	17	777
Marot, Helen	18	307
Mitchell, John	19	266
Morris, William	13	286
	19	477
Owen, Robert	13	287
	13	290
	21	64
Percival, Thomas	13	289
Sargent, Frank Pierce	24	303
Spies, August	14	20
Stephens, Uriah Smith	25	620
Stone, Warren Sanford	25	679
Tillett, Benjamin	26	626

LANGUAGE AND LITERATURE

General	Vol.	Page
A	1	1
Abbreviations	1	19
Ablative case	1	43
Absolute	1	53
Accent	1	68
Accident	1	70
Accusative case	1	82
Adjective, the	13	114
Adverb	1	166
	13	114
Agglutinate languages	1	236
Alphabet	1	435
	16	765
	25	386
English	21	790
Glagolithic	12	679
Phoenician	14	207
phonographic	24	751
Alphabets, Aramean	1	436
comparative shorthand	24	748
Cyrillic	8	372
	25	94
Hellenic	1	436
Russian	24	17
South Semitic	1	436
American Dialect Society	1	510
Philological Association	1	550
Americanisms	1	522
Amphibology	1	587
Aorist	2	50
Apostrophe	2	71
	25	382
Apposition	2	96
Appositional nouns	24	573
Art of writing, mastery of the	14	206
	29	572
Article	2	357
Asoka edicts	15	157
Assyrian syllabary	15	156
Assyriology	2	434
B	3	1
Billingsgate	3	707
Blague	4	51
Boustrophédon	4	354
	29	574
Bull	5	8
C	5	113
Capitals	5	564
Caput mortuum	5	575
Case	5	697
	13	117
Cedilla	6	164
Circumflex	6	695
Comparison	7	427
Con	7	457
Conjunction	7	522
	13	114
Cuneiform writing	14	173
	15	156
D	8	385
Dative	8	491
Declension	8	566
Deca	8	552
Definition	8	587
Deponent	8	703

General — cont'd	Vol.	Page
Delta	8	628
Dialectic	9	53
Dialogue	9	58
Dialect	9	56
Diæresis	9	55
Dictionary	9	87
Dictionaries, foreign	9	88
Dictionaries – European languages into English	9	88
Dictionary functions	9	87
Dictionaries, special	9	89
Dictionary ancestry	9	88
Webster's	13	58
Digamma	9	107
Diminutive	9	122
Diphthong	9	140
Dope	9	262
Dual number	9	366
E	9	472
Egyptian linguistic principles	14	172
Epinal glossary	10	426
Esperanto language	10	501
Etymology	10	558
Etymologicum magnum	10	558
Exclamation	25	382
F	10	690
Futhark	12	204
G	12	213
Gender	12	368
	13	116
	24	588
number and case, Latin	16	765
Genitive	12	397
Glagolitic alphabet	12	679
Gloss	12	720
God, name of, in different languages	12	744
Grammar	13	112
as a constructive art	13	113
English	13	115
Grammarless tongue, the	13	118
Grammatical analysis	13	113
categories	16	726
gender	13	116
Graphic word	23	457
H	13	600
Hieroglyphics	14	171
Hieroglyphs, Egyptian alphabetic	14	172
I	14	614
Idiom	14	668
Ido	14	668
Inflections	15	123
	24	434
Inflexion	15	123
of nouns	13	80
Infinitive	15	120
Inscriptions	15	155
Iberian	15	158
interjection	13	114
	15	223
interrogations	25	382
Inversion	15	286
Isolation	15	416
J	15	571
K	16	271

General — cont'd	Vol.	Page
L	16	565
Language	14	233
origin of	25	382
science of	16	722
universal	27	569
Languages, classification of	16	726
Language map of Europe	16	729
study in Europe, history of	16	728
Linguistics, general	16	722
Logogram	17	610
M	18	1
Majuscule	29	574
Minuscule	29	574
N	19	676
Noun	13	114
	20	461
Latin	16	766
Number	13	117
O	20	527
Orthography	21	12
P	21	86
Panjandrum	21	246
Parts of speech, Latin	16	765
Patañjali	21	379
Patois	9	56
Person	13	117
Personification	25	381
Philistinism	21	761
Phonetic change	24	17
characteristics, Teutonic	26	458
Phonetics	16	723
	21	790
English shorthand	24	750
in Romance languages	23	649
Pidgin English	22	72
Preposition	13	114
Printing and spelling	25	386
Pronoun	13	114
	13	117
	22	655
Pronouns, Latin	16	766
Pronunciation	22	656
Proposition	22	668
Positive	22	421
Q	23	51
Quantification of the predicate	23	57
Quantity	23	57
R	23	102
Reciprocal	23	269
Runic inscriptions	15	158
S	24	75
Semantics	4	452
	16	725
Semasiology	4	452
	16	725
Sentence	24	572
parts of	24	573
periodic	24	572
Sentences, classified	24	572
Shorthand	24	746
alphabet	24	746
efforts to formulate science	24	752

General — cont'd	Vol.	Page
its present state as science	24	752
limitations of a science of	24	753
specific propositions which concern scientific	24	753
structure of	24	752
systems, French	24	750
work, first modern	24	749
oldest English	24	749
science of	24	752
Simile	25	22
	25	381
Sound writing	14	207
Speech, eight parts of	13	116
figures of	25	381
genesis of	25	382
visible	21	790
	28	135
Spelling	25	385
phonetic	21	790
	25	387
reform	25	387
Synonyms	26	176
Syntax	13	115
	25	351
	26	176
T	26	195
Tertius gaudens	26	452
Tachygraphy, Martis	24	749
Trivium	27	80
U	27	249
Umlaut	27	268
V	27	624
Vedic grammatical forms	24	272
Verb, the	13	114
Latin	16	766
Vernacular	9	56
Verner's law	28	32
Vision	25	382
Volapük	28	169
Vowel	28	194
W	28	202
Writing	29	572
cuific	8	293
Egyptian methods of	14	173
hieratic system of	14	173
X	29	593
Y	29	601
Z	29	679
Zeta	29	705

LANGUAGES

Languages, Dialects, etc.

Languages, dialects, etc. — cont'd	Vol.	Page
Afghanistan language	1	208
African languages	1	217
Amhara	1	570
Amara Sinha	1	463
Altaic languages	1	444
Anglo-Saxon language and literature	1	690
Apabhramsa	22	509
Arabic dialects	9	57
	24	550
language	2	125
Aramaic language	2	132
	24	549
Eastern	24	549
Ardhamâgadhi	22	509
Aryan languages	2	372
Assyrian language	2	430
Attic Greek	2	522
Avestan	29	698
Aztec	13	593
Aztigan	13	593
Bagobo	21	758
Batan	21	758
Bembo	15	499
Bengali language	3	513
	15	21
Bikol	21	757
Bisaya	21	757
Bohemian language	25	90
and literature	4	159
Bosh	4	287
Bulgarian language and literature	5	5
Castilian	25	349
Catalan language	6	37
Celtic	6	177
	11	647
elements in French	11	648
Chaldee language	6	251
Chibhali-Dogeri	23	22
Chinese inscriptions	15	156
language, the	6	555
	9	57
Chinook jargon	6	560
Chippewa	3	227
Church Slavic language	24	16
Coptic languages	7	667
Danish language	8	457
Dialect	9	56
Dialects, Italian	15	500
Serbian	24	588
Dravidian languages	9	313
Dutch language	9	430
Egyptian hieroglyphics	15	156
language	24	550
and writing	10	15
Emeku	26	12
Emesal	26	12
Emilian dialect	15	501
English language	10	364
Ephraem	26	191
Erse	10	485
Etruscan inscriptions	15	158
Ewe	10	615
Félibrige movement	11	101
Finnish language	11	224
Flemish language	11	346
French dialects	11	650
language	11	646
Gallo-Italiano dialect	15	501
Gaura language	3	513
German language	12	529
Low	22	238
Gitano	13	593
Gothic language — extinct monuments	13	80
and literature	13	80
Great Russian dialects	24	16
Greek language	13	393
ancient	13	395
modern	13	399
Gujarati language and literature	13	542
	15	21
Gurmukhi	23	22
Gypsy language	13	593
Hebrew grammatical structure	16	68
language	16	68
loan words	16	69
Hieratic	10	15
Hieroglyphics	10	15
Hindi	15	21
Hindustani language and literature	14	198
	15	21
Hungarian language	14	504
Ibanag	21	758
Iberian inscriptions	15	158
Iceland language	14	629
Ido	14	668
Igorot	21	758
Ilóko	21	757
Incas, ancient language of the	23	88
Indians, American, languages of	15	51
Indic dialects	9	57
Indo-European, relation of Hebrew to	16	69
Iramic dialects	9	57
Istriano dialect	15	501
Italian dialects	9	57
language	15	498
Italic languages	15	426
Japanese language	15	682
Jathki	23	22
Javanese	15	758
Jewish dialects	9	57
Kanarese	15	21
Kashmiri	16	312
Kavi	16	323
Kirilitsa, church Slavic	24	17
Komodromoi	13	593
Ladino	16	643
Landsmaal	1	5
	20	441
Language, international	15	255
Naipali	19	684
Languages, Indo-Germanic	15	69
	16	730
Iranian	15	307
Romance	16	729
Slavic	16	730
Langue D'oc	11	650
	16	732
	22	698
	22	703
Latin	15	427
	17	83
	23	648
the mechanism of	16	765
Latin-Faliscan	15	427
Lettic language	17	324
Ligurian dialect	15	501
Lingua Franca	11	647
Lithuanian language and literature	17	518
Little Russian dialect	24	66
Lombard dialect	15	501
Low Latin	23	648
Magindanao	21	758
Mâhârâstri	22	589
Malano	21	758
Malay tongue	21	758
Malayalam	15	21
	18	162
Malauec	18	161
Maltese	2	125
Mangyan	21	758
Manx	6	187
	18	250
Marathi language and literature	18	263
Marrucinian dialect	15	427
Marsian dialect	15	427
Maya hieroglyphics	15	156
Melki-Zedekite	13	593
Mishnah Hebrew	16	69
Multani	23	22
Nahuat	13	593
Neapolitan dialect	15	501
Nestorian dialect	24	549
Niederdeutsch	22	238
Norman French	20	405
tongue	23	110
Neo-Hebraic	16	69
Norn language	14	629
Norrönt Mål	14	629
Norse dialects	26	121
language	20	408
Norwegian language	20	440

Languages, dialects, etc. — cont'd	Vol.	Page
Old Church Slavonic language and literature	20	653
Frisian Low German, the	25	110
Testament Hebrew	12	68
Oriya	15	21
Oscan	15	428
dialect	15	427
Umbrian	15	428
Ossetic language	21	23
Outer Band, the Prakrits of the	22	509
Paelignian dialect	15	427
Pāli	13	7
	21	204
literature	21	204
Pampafigan	21	757
Pafigasinan	21	757
Pānini, grammar of	24	274
Pehlevi	15	307
	21	472
Pennsylvania Dutch	21	537
Persian language	21	625
Philippine languages and dialects	9	57
	21	757
Phœnician language and literature	21	787
Phrygian language	22	22
Piedmontese dialect	15	501
Plattdeutsch	22	238
Polish language	22	305
	25	90
Polynesian languages	22	354
Portuguese language	22	415
Prakrit	15	21
	22	508
Provençal dialects	22	698
language	22	697
terminations	22	698
Punjabi	15	21
	23	22
Rekhta	14	198
Rom	13	593
Romagnolo dialect	15	501
Romance languages	23	646
	23	648
inter-influence in	23	650
Romany	13	593
Romini	13	593
Rumanian dialects	23	768
language	23	768
Rumonsh dialects	26	146
speaking people	26	146
Russian language	24	16
literary tongue	25	89
noun	24	17
sentence structure	24	18
vowels	24	18
Sabine dialect	15	427
Samaritan language	24	219
Sanskrit	15	21
	24	271
development of	24	273
grammar of Panini	13	113
Sardinian dialect	15	501
	24	300
Saurasēni	22	509
Semitic languages	24	548
Eastern branch	24	548
Middle branch	24	549
Northern branch	24	549
Southern branch	24	550
written characters	24	550
Serbian languages	24	588
Serbo-Croatian language	25	90
Siamese language (Indo-Chinese)	24	764
Sicilian dialect	15	501

Languages, dialects, etc. — cont'd	Vol.	Page
Sigeuner	13	593
Sign languages	24	799
Singhales	25	34
Singhalese	25	34
Slavic languages	25	89
tongues	25	93
Slavonic dialects	9	57
Southern Arabic characters	24	551
Spanish languages	25	349
Sulu	21	758
Sumerian cuneiform	26	12
languages	26	11
Swedish language	26	121
Syriac dialects	24	549
language	24	549
	26	190
Tabula bantina	15	428
Tabulæ Iguvinæ	15	158
Tagálog	21	757
Tagbanwa	21	758
Tahitian literature	26	215
Tamil	9	313
	15	23
	26	224
Targumic Aramaic	24	549
Tatsamia	23	22
Telegu	15	21
Telinga	26	402
Telugu	9	313
	26	402
Teutonic languages	26	457
system, conjugation of verbs	26	458
Tino	21	758
Tiruray	21	758
Tungusic	27	145
Turanian	27	169
Turkish language	27	199
Tuscan dialect	15	501
Ugrian	27	253
Ukraine language	27	258
Umbrian	15	427
	15	501
Ural Altaic languages	27	588
Urdū	14	198
	15	21
	27	591
Vedic language	24	272
Vandals, vernacular of the	26	458
Venetian dialect	15	501
Veneto dialect	15	501
Visaya	21	757
Volapük	28	169
Volscian dialect	15	427
Vopadeva	28	185
Wall scratchings	15	158
Wend language	29	191
Wishoskan	29	428
World English	29	526
Yiddish language	29	637
Zambal	21	758
Zend	15	307
	29	698
Zingari	15	593
See also Literature		

Biographies

UNITED STATES

Biographies — cont'd	Vol.	Page
Balg, Gerhard Hubert	3	81
Binham, William	3	715
Buck, Carl Darling	4	664
Bullions, Peter	5	17
Calhoun, Simon Howard	5	194
Callaway, Morgan	5	226
Capps, Edward	5	570
Carpenter, William Henry	5	654
Churchill, William	6	662
Cook, Albert Stanburrough	7	620
Davis, Charles Henry Stanley	8	508
D'ooge, Benjamin Leonard	9	260
Easton, Morton William	9	513
Ferguson, Arthur Walsh	11	124
Flügel, Ewald	11	401
Gibbs, Josiah Willard	12	642
Gildersleeve, Basil Lanneau	12	651
Goodrich, Chauncey Allen	13	58
Gottheil, Richard James Horatio	13	82
Hadley, James	13	610
Hall, Fitzedward	13	641
Harrison, James Albert	13	729
Hart, James Morgan	13	733
Hempl, George	14	92
Hopkins, Edward Washburn	14	371
Horsford, Eben Norton	14	416
Jackson, Abraham Valentine Williams	15	573
Jastrow, Marcus M	15	752
Jastrow, Morris, Jr	15	752
Lodge, Gonzalez	17	589
Loughridge, Robert McGill	17	672
McDaniel, Walton Brooks	18	35
MacDonald, Duncan Black	18	35
McLouth, Lawrence Amos	18	81
March, Francis Andrew	18	267
Mason, Francis	18	379
Nordheimer, Isaac	20	399
Osmun, Thomas Embley	21	22
Oussani, Gabriel	21	54
Packard, William Alfred	21	91
Packard, Lewis Richard	21	91
Palmer, Arthur Hubbell	21	211
Pattee, Fred Lewis	21	407
Phyfe, William Henry Pinkney	22	23
Price, Ira Maurice	22	567
Rand, Edward Kennard	23	207
Remy, Alfred	23	367
Reeves, Arthur Middleton	23	397
Riggs, Elias	23	518
Scott, Fred Newton	24	439
Sheldon, Edward Stevens	24	682
Smith, Buckingham	25	113
Smith, Charles Alphonso	25	114
Smith, Eli	25	115
Smyth, Herbert Weir	25	141
Todd, Henry Alfred	26	666
Tolman, Herbert Cushing	26	676
Torrey, Charles Cutler	26	710
Underwood, Horace Grant	27	275
Warren, Frederick Morris	28	707
Webster, Noah	29	151
West, Andrew Fleming	29	198
Weeks, Raymond	29	158
Wheeler, William Adolphus	29	252
Whitney, William Dwight	29	284
Williams, Samuel Wells	29	345
Worcester, Joseph Emerson	13	58
	29	510

Biographies — cont'd	Vol.	Page
BRITISH EMPIRE		
Barker, Edmund Henry	3	255
Barnes, William	3	267
Barrow, George	4	283
Bosworth, Joseph	4	305
Bradley, Henry	4	388
Burnell, Arthur Coke	5	54
Coleridge, Herbert	7	245
Crabb, George	8	144
Donaldson, John William	9	254
Earle, John	9	486
Eggeling, Julius	9	728
Ellis, Alexander John	10	255
Jamieson, John	15	610
Jolly, Julius	16	192
Jones, Sir William	16	202
Latham, Robert Gordon	16	763
MacDonell, Arthur Anthony	18	38
McCurdy, James Frederick	18	34
McLean, Norman	18	77
Macmillan, Alexander	18	83
Macmillan, Daniel	18	88
Macmillan, Sir Frederick	18	83
Macmillan, George A.	18	88
Macmillan, Maurice Crawford	18	83
Murray, Lindley	19	611
O'Growney, Eugene	20	608
Ouseley, Sir Gore	21	53
Ouseley, Sir William	21	54
Palmer, Edward Henry	21	212
Pitman, Isaac	24	750
Rhys, Sir John	23	480
Sale, George	24	179
Sayce, Archibald Henry	24	344
Skeat, Walter William	25	66
Sweet, Henry	26	126
Taylor, Isaac	26	299
Walker, John	28	228
Wilson, Horace Hayman	29	359
FRANCE		
Beaufront, Marquis L. de	14	668
Brachet, Auguste	4	380
Burnouf, Eugène	5	58
Chabaneau, Camille	6	239
Ducange, Charles de Fresne	9	376
François De Neufchateau, Nicolas Louis François	12	3
Herbelot, Barthelemy d'	14	117
Hyvernat, Eugène Xavier Louis Henri	14	613
La Villemarque, Théodore Claude Henri Hersart	16	586
Langlès, Louis Mathieu	16	720
Menage, Gilles	18	620
Paris, Gaston Bruno Paulin	21	300
Raynouard, François Juste Marie	23	241
Sacy, Antoine Isaac	24	98
GERMANY		
Abel, Carl	1	34
Adelung, Johann Christoph	1	135
Adler, George J.	1	142
Ahrens, Franz Heinrich Ludolf	1	271
Bartholomae, Christian	3	290
Bartsch, Karl Friedrich Adolf Konrad	3	298
Bayer, Gottlieb Siegfried	3	363
Becker, Karl Ferdinand	3	404
Bernhardi, August Ferdinand	3	572
Bernhardy, Gottfried	3	573
Benfey, Theodor	3	510
Bezzenberger, Adalbert	3	607
Blanc, Ludwig Gottfried	4	58
Bleek, Wilhelm Heinrich Immanuel	4	76
Bohtlingke, Otto von	4	163
Bopp, Franz	4	261
Breul, Karl Hermann	4	473
Breymann, Hermann	4	487
Brink, Bernhard Ten	4	542
Brockhaus, Hermann	4	572
Brugmann, Friedrich Karl	4	628
Brugsch, Heinrich Karl	4	629
	14	174
Bucheler, Franz	4	663
Bühler, Johann Georg	4	701
Buttermann, Philipp Karl	5	90
Buxtorf, Johann (the elder)	5	93
Carpzov, Johann Gottlob	5	660
Christ, Wilhelm von	6	596
Collitz, Hermann	7	271
Collitz, Klara Hechtenburg	7	271
Corssen, Wilhelm Paul	8	25
Creuzer, Georg Friedrich	8	189
Crusius, Otto	8	263
Curtius, Georg	8	318
Diefenbach, Lorenz	9	95
Diez, Friedrich Christian	9	105
Dillmann, Christian Friedrich August	9	121
Docen, Bernhard Joseph	9	216
Erman, Adolf	10	480
	14	174
Ether (Karl), Hermann	10	532
Ettmüller, Ernest Moritz Ludwig	10	557
Euting, Julius	10	586
Fabricius, Johann Albrecht	10	696
Fick, August	11	174
Fleckheisen, Carl Friedrich Wilhelm Alfred	11	341
Fleischer, Heinrich Leberecht	11	343
Flügel, Gustav Leberecht	11	401
Flügel, Johann Gottfried	11	402
Förster, Wendelin	11	495
Freund, Wilhelm	12	98
Friedländer, Ludwig	12	104
Frommann, Georg Karl	12	121
Gabelentz, Hans Conon von der	12	213
Geiger, Lazarus	12	358
Geiger, Wilhelm	12	358
Geldner, Karl Friedrich	12	361
Gesenius, Friedrich Heinrich Wilhelm	12	626
Grimm, Jakob Ludwig	13	475
Grimm, Wilhelm Karl	13	476
Grotefend, Georg Friedrich	13	490
Hermann, Gottfried	16	728
Humboldt, Karl Wilhelm	14	490
Jahn, Otto	15	596
Keller, Otto	16	339
Klotz, Reinhold	16	475
Köckly, Hermann	16	505
Kretschmer, Paul W.	16	542
Kuhn, Franz Felix Adalbert	16	552
Lachmann, Karl Konrad Friedrich Wilhelm	16	634
Lagarde, Paul Anton	16	650
Lehrs, Karl	17	261
Leo, Friedrich	17	297
Neumann, Karl Friedrich	20	99
Nipperdey, Karl Ludwig	20	368
Nöldeke, Theodor	20	392
Passow, Franz Ludwig Karl Friedrich	21	372
Raumer, Rudolph von	23	231
Reimarus, Hermann Samuel	23	332
Reiske, Johann Jakob	23	336
Ribbeck, Johann Karl Otto	23	482
Rosen, Friedrich August	23	697
Ruckert, Friedrich	23	751
Schleicher, August	24	377
Schmidt, Johannes	24	382
Steinthal, Heymann	25	612
Zacher, Ernst Julius August	29	680
Zell, Karl	29	697
Zeuss, Johann Kaspar	29	706
Zingerle (Von Sommersberg), Ignaz Vincenz	29	713
Zumpt, August Wilhelm	29	739
Zumpt, Karl Gottlob	29	739
OTHER COUNTRIES		
Aasen, Ivar	1	5
	20	441
Apollodorus	2	64
Aristotle	2	243
	16	728
	23	458
Aristides, Quintilianus	2	236
Aristides, Ælius	2	236
Ballagi, Maurice	3	97
Bloch, Moritz	3	97
Blommaert, Philipp	4	103
Bos, Lambert	4	284
Braga, Theophilo	4	391
Bugge, Elseus Sophus	4	699
Buhl, Frants	4	701
Caix, Napoleone	5	151
Calvus, Gaius Licinius Macer	5	241
Corax of Syracuse	23	458
Csoma de Koros, Alexander	8	277
Cumont, Franz Valery Marie	8	301
Damianus	8	430
Demosthenes	8	672
Didymus	9	94
Diniz Da Cruz e Silva, Antonio	9	126
Dobrovsky, Josef	25	93
Donatus, Ælius	9	256
Dositheus	9	270
D'Ovidio, Francesco	9	286
Facciolati, Jacopo	10	697
Facciolato, Jacopo	10	697
Festus, Sextus Pompeius	11	157
Flaccus Verrius	11	307
	15	157
Fortunatianus, Atilius	11	522
Fulgentius, Fabius Planciades	12	152
Gigli, Girolamo	15	499
Gist, George	24	577
Gislason, Konrad	12	668
Guess, George	24	577
Hermagoras of Temnos	23	458
Hesychius	14	160
Houtman, Frederik	14	451
Hyperides	14	601
Ihre, Johan	14	674

Biographies — cont'd	Vol.	Page
Iriarte, Juan de	15	323
	29	670
Isocrates	15	415
	23	458
Jagic, Vatroslav	15	595
Jespersen, Jens Otto Harry	16	35
Kaalund, Peter Erasmus Kristian	16	274
Kimchi, David (Rdak)	16	416
Kopitar, Bartholomæus or Jernej	16	520
Knudtson, Jörgen Alexander	16	501
Lanzi, Luigi	16	738
Luna, Alvaro de	17	738
Lysias	17	787
Miklosich, Franz von	19	52
Nonius, Marcellus	20	396
Petersen, Niels Matthias	21	671
Philo Byblius, Herennius	21	766
Plato	16	728
	22	233
Qvigstad, Just Knud	23	101
Rask, Rasmus Christian	23	220
Sequoyah, George	24	577
Sophocles, Evangelinus Apostolides	25	262
Tallqvist, Knut L.	26	230
Thrasydeus	23	458
Tommaseo, Niccolo	26	688
Trissino, Giorgio	15	499
	27	76
Ulfilas	27	262
Ulphilas	27	262
Vambéry, Arminius	27	661
Verner, Karl Adolf	28	31
Willems, Jan Frans	29	328
Wulfilas	27	262
Yriarte, Juan de	29	670
Zingerle (Von Sommersberg), Ignaz Vincens	29	713

LITERATURE

General

General — cont'd	Vol.	Page
Acrostic	1	104
Addresses	20	734
Address, the commencement	20	734
inaugural, the	20	734
the political	20	734
Alexandrine	1	374
Allegory	1	411
	25	381
Alliteration	1	422
	25	382
	28	57
Allusion	25	382
Amaryllis	1	464
Ana	1	598
Anachronism	1	602
Anagram	1	605
Anapæst	1	623
Annuals	1	719
Anonymous	2	5
Anthology	2	16
Antithesis	25	381
Apologue	2	67
Apology	2	67
Aposiopesis	2	68
Apostrophe	2	71
	23	16
Arcadia	2	148
	21	376
Argiletum	4	233
Aspic	2	408
Assonance	2	426
	28	37
Autograph	2	642
Ballad	3	94
	19	707
Barleycorn, John	3	258
Belles Lettres	3	482
	17	508
Bembo	17	322
Bibliography	3	674
Bibliomania	3	677
Biography	3	718
Blank verse	4	62
	22	276
	28	39
Book	2	223
	4	223
Bookplate	4	243
Bouts Rimés	4	355
Broad-sides	14	701
Cæsura	5	142
Canzone	5	539
Canzonet	5	540
Canzonetta	5	540
Cauda	25	257
Cento	6	201
Chap-books	6	294
Charade	6	302
Charmion	6	335
Chapter	6	299
Children's literature	6	489
Choliambus	6	587
Chronogram	6	687
Cipher writing	6	688
Classical literature	14	278
Clavis	7	65
Climax	7	112
	25	382
Codex	7	197
Alexandrinus	4	225
Argenteus	13	80
rescriptus	7	197
Colon, the	23	16
Colophon	7	306
Colophons	4	227
Comma	7	363
Commentary	7	365
Common metre	7	415
Concordance	7	463
Contractions	7	599
Copy	7	669
Copyright	7	670
	22	785
Canadian	7	674
Criticism	8	212
principles of comparative	17	512
Cyclopædia	10	316
Dactyl	8	389
Dactyls	14	162
Dash, the	23	16
Debates	20	733
Decadents, the	8	552
Descriptive poetry	17	508
Diacritical marks	9	55
Diæresis	9	55
Diary	9	.72
Diatribe	9	74
Dictionary, the most famous	9	88
the mightiest	9	88
Didactic	7	52
poetry	9	94
	17	508
Dipody forms	17	597
Diptych	9	142
Diptycha	4	224
Distich	9	172
Doctor of literature	9	217
Drama	9	303
	17	508
Dramatic poetry	17	507
	22	276
Eclogue	9	554
	19	508
poetry	17	508
Elegiac	7	52
Elegy	10	219
Elocution	10	261
Encyclopædia	10	316
Encyclopedias, first	26	560
Epic, The	19	707
poetry	7	51
Epigram	10	421
	25	387
Episode	10	430
Epithalamium	10	436
Epitome	10	437
Erato	10	468
Errata	10	484
Essay	10	508
	17	506
	20	733
Ethical Characters	10	508
Euphemism	10	576
	25	382
Euterpe	10	586
Exclamation marks	23	16
Ex pede Herculem	10	643
Expository poetry	17	508
Fable	6	493
	10	691
	19	709
Facetiæ	10	697
Facsimile	10	698
Fagin	10	710
Fairy tales	10	722
Fairy tales, myths and fables	6	492
Fatima	11	57
Feet	11	455
	28	37
Female rhymes	11	107
Feminine rhymes	23	479
French letter-writing	17	322
Fustian	12	203
Gaelic literature	12	219
Gazette	12	349
Geist	12	360
Gnome	12	736
Head-rhyme	28	37
Hexameter	14	162
Hyperbole	14	601
	25	382
Iambic	14	614
Idealism	14	663
Idyl	14	670
Idyll	14	670
Illuminated manuscripts	14	700
Illustration of books	3	678
	14	700
Incunabula	14	748
Index	14	749
Interrogation marks	23	16
Interpolation	15	267
Irony	15	390
	25	382
Januensis	3	72
Lectures	20	734
platform	20	734
Legend	17	241
Letters in literature	17	321
Leonine verse	17	303
Literature	17	508
comparative	17	511
definition	17	513
of the 13th century	26	560
influence of World War on	17	509
Literary forms	17	505
Litotes	25	382
Logaœdic verse	17	597

General — cont'd	Vol.	Page
Lyric	7	52
poetry	17	784
Lyrical Ballads	19	707
poetry	17	507
Macaronic verse	18	8
Madrigal	18	109
Manuscripts	18	242
illuminated	18	243
Manx literature	6	182
	18	250
Masculine rhyme	23	479
Mayo chronicles	6	460
Melic	7	52
Melodrama	18	607
Metaphor	18	707
	25	381
Metonymy	25	382
Metre	28	37
"Metrical Romance"	19	709
Monody	19	364
Moralities	19	438
Mysteries	9	305
	19	663
Mythological tales	6	493
Narrative poetry	17	507
	19	707
Naturalism in literature	23	256
Neo-classical poetry	22	277
Nobel prizes, The	20	383
Novel, the	20	467
	20	477
Ode	20	578
Ogam	12	220
Ogam, or Ogham	20	604
Oldest dictionary	9	88
forms of rhymed verse	23	479
Onomatopœia	25	382
Opera Moralia (moral works)	10	508
Orations	20	734
Oration, civic or national	20	735
commemorative	20	735
panegyric	20	735
the salutatory	20	734
Oratory	20	733
history of	20	736
Origin of the modern realistic novels	23	257
of runes	23	775
Ottava Rima	28	39
Pagination	4	228
Palimpsest	7	197
Palimpsests	4	224
	21	205
Pamphlet	21	222
Papyrus	4	233
	21	270
prisse	4	223
Parable	21	271
Parallelism	21	283
Parenthesis, the	23	16
Parody	21	341
Pasquin	21	367
Pasquino	21	367
Pastoral poetry	17	508
Pasquinade	21	367
Pentapody forms	17	598
Periodical literature	21	590
Period, the	23	16
Personification	21	632
Philippic	21	748
Philology and criticism	7	55
	17	722
Phonetic writing	21	790
Play censorship	22	242
Poem	6	306
Poetry	7	55
	17	506
	22	276
Poetry of the 19th century	22	278

General — cont'd	Vol.	Page
Poetry of the Romantic movement	22	277
Polyglot	22	330
Prologue	22	650
Proposition	22	668
Prose fiction	17	506
literature	17	506
Pseudonym	22	728
Pseudonyms	22	728
Pugillaria	4	224
Pun	23	15
Punctuation	23	16
Quantity	23	57
Quatrain	23	69
Realism and naturalism in literature	23	256
Realism in poetry	23	258
Recent poetry	22	278
Renaissance poetry	22	277
Reflective lyric	17	784
Reversed comma, a	23	16
Rhetoric	23	457
and oratory	7	55
figures of	23	458
profane	23	457
renaissance	23	458
Rhetors	23	457
Rhyme	23	478
	28	37
modern use of	23	479
scheme	23	479
Rhythm	23	480
Rime royal	28	39
Romanticism	23	655
its characteristics	23	655
Romance	23	646
Romantic movement	17	511
	23	656
Rondeau	23	677
Rondo	23	677
Rubric	23	749
Runes	23	774
Satire	24	311
Satirical poetry	17	508
Semicolon, the	23	16
Seguidilla	24	531
Sentence, balanced	24	573
complex	24	572
loose	24	572
Sermons	20	734
didactic	20	734
exhortatory	20	734
expository	20	734
special occasion	20	734
subject	20	734
text	20	734
Sirvente	25	46
Speeches, gavel	20	733
of introduction	20	733
Spondee	14	162
Short story	17	506
Simplex cryptograph	6	689
Single rhymes	23	479
Sizes of books	4	226
Sonnet	25	257
	28	39
Spenserian stanza	28	39
Stanza	25	488
	28	36
Strophe	25	741
Synecdoche	25	382
Tabulæ	4	224
Technical book terms	4	229
Title pages	4	227
Tetrapody forms	17	598
Toasts	20	733
Topic	26	701
Topical speeches	20	733
Topics for investigation	17	511
Tragedy	7	53
	26	765
Tripody forms	17	597

General — cont'd	Vol.	Page
Triple rhyme	23	429
Trochee	14	162
Valedictory, the	20	734
Vers de Société	17	508
Verse	28	36
Versification	28	36

CLASSIC

Subjects

	Vol.	Page
Abelard and Heloise	17	822
Advice to the Married	22	260
Adelphi	1	135
Æneid, The	1	175
	4	62
	19	708
	28	112
Aethiopica	1	203
Agamemnon	1	229
	13	404
Agricola, Life of	1	242
Alcestis	1	342
Alexandrian Age	1	373
	13	406
Alexiad	1	276
Amores	21	61
Anabasis	1	600
Anacreontics	1	603
Antigone	2	31
Anti-sophistic group, the	22	234
Aparikshitakaraka	21	240
Argonautica	19	708
Ars amatoria	21	61
Art of poetry	2	346
Aruspices, on the reply of the	2	371
Attic Nights	10	508
Attic salt	2	523
muse, the	2	522
tragedy	9	304
Augusta historia	2	544
Augustan Age	2	544
	17	86
Banquet of the Seven Wise Men	22	260
Bavius and Mævius	3	357
Battle of the Frogs and Mice	3	346
Birds, the	3	735
Books of Memorable Deeds and Utterances	10	508
Bucolics	28	112
Captivi	5	574
Carmina Burana	13	39
Chœrilus	6	582
Ciceronian Age	17	85
Cicero's letters	6	670
Clouds, the	7	132
Codex Justinianus	17	90
Comedy, classic	7	54
Comedy, Greek	13	405
Corpus Inscriptionum Atticarum	15	157
Corpus Inscriptionum Latinarum	15	157
Culex	8	295
Cyclic poems	13	403
Delphin classics	8	627
De Officiis	8	701
De Oratore	8	701
De Rerum Natura	8	712
	17	719
Devanagari	9	35
Dialogues of the dead	9	58
Dialogues of Plato, Jowett's translation of	9	60
Dialogus de Oratoribus	26	203
Dinias and Dercyllis	9	125
Discourses and Handbook of Epictetus	9	155
Dithyramb	9	196
Dithyrambus	9	196

Classic — cont'd	Vol.	Page
Dorian choral poets	22	94
Drama, classic	7	53
Eclogue	9	554
Eclogues	28	112
Ephesiaca, or Ephesian Tales	10	413
Epic cycle	13	403
Epilogue	10	426
Epinikia	22	95
Epinikion	22	95
Odes of Pindar	22	94
Epistulæ ex ponto	10	435
Epode	10	438
Erotic poets	10	488
Eupolis	10	578
Exegetes	1	360
Fables of Æsop	10	692
Fasti	11	52
	21	61
Frogs, the	12	118
Gallic War, Cæsar's Commentaries on the	12	246
Georgics	28	112
of Virgil, The	12	491
Germania (Tacitus)	12	502
Goat song	13	404
Golden Ass, The	13	25
epistles	10	509
Fleece, Capture of the	13	26
verses	13	29
Graeco-Roman Age	13	406
Greek anthology, the	13	379
drama	13	404
literature	7	51
	13	402
poetry	22	276
Hector	14	62
Hecuba	14	62
Hellenics	14	84
Hero and Leander	14	135
Heroides	21	61
Homeric Hymns	13	403
Horace's Satires and Epistles	14	380
How a Flatterer May be Distinguished from a Friend	22	260
How a Young Man Ought to Hear Poetry	22	260
How One May be Conscious of Progress in Goodness	22	260
How to Get Benefit out of Enemies	22	260
Hyperion	14	602
Iliad	13	397
	13	403
	14	677
	19	708
Institutes of oratory, The	15	173
Irus	15	400
Juvenal's Satires	16	269
Kakolukiya	21	240
Kalhana	16	283
Labdhapranasana	21	240
Latin	17	84
literature	24	513
of the Middle Ages	17	88
poetry	22	277
writers	17	93
Lives of the Ancient Grecians and Romans	22	260
Literature, classical	7	51
	14	278
Byzantine period	7	56
Lives, parallel	17	539
Logographers	17	610
Logographi	17	610
Lyrical Odes of Pindar	22	277
Martial's epigrams	18	334

Classic — cont'd	Vol.	Page
Medea, The	18	532
Meditations of the Emperor Marcus Aurelius	10	508
Meditations of Marcus Aurelius, The	18	589
Metamorphoses	18	705
	19	709
	21	61
Metaphysical group	22	234
Milesian tales	19	57
Mimiambi	19	143
Moralia	22	260
Nitrabheda	21	240
Nitraprapti	21	240
Nagari	9	35
Nanno	19	145
Novum comum	22	249
Odes in Praise of Augustus	20	583
of Horace	20	563
Odyssey	13	397
	13	403
	19	708
	20	587
Œdipus	20	590
Coloneus	20	591
Rex	20	591
Tyrannus	20	593
Old Man of the Sea	20	655
On the Cessation of Oracles	22	260
On Fate	22	260
On Exile	22	260
On the Genius of Socrates	22	260
On Having Many Friends	22	260
On Chance	22	260
On the Nature of Things	8	712
On Virtue and Vice	22	260
On the Right Way of Hearing	22	260
On the Education of Children	22	260
On Isis and Osiris	22	260
On Superstition	22	260
On the Sublime	20	686
Onomasticon	20	692
Oration on the Crown, The	20	730
Orations against Catiline	20	731
Oresteia	20	785
Pæan	21	94
Palimpses	21	205
Palatine anthology	21	137
manuscript of Cephalas	13	380
Panchatantra	21	240
Parallel Lives of Illustrious Greeks and Romanus	22	259
Pelopiaton	1	360
Pericles and Aspasia	21	585
Pervigilium veneris	21	653
Phallic songs	13	405
Phœnissæ	21	739
Phormio	21	793
Phrynichus of Miletus	13	389
Physico - mathematical group	22	334
Pindar, odes of	22	94
Plato's dialogues	10	506
republic	22	234
Plutarch's Lives, North's translation of	22	260
French translation by Amyot	22	260
Poems on life and conduct	20	583
Poetics of Aristotle	22	274
Politico-religious group, the	22	234

Classic — cont'd	Vol.	Page
Praises of Wine	20	583
Precepts about Health	22	260
Prometheus Bound	22	652
Raghuvamsa	23	138
Rājatarangini	23	195
Remedia amoris	21	61
Rhetoric	13	405
Roman literature	7	56
Rome, History of	17	545
Sanchuniathon	24	248
Satire, Greek	13	405
Saturnian verse	24	316
Scholia	24	387
Scholium	24	387
Seneca's epistles to Lucilius	10	508
Shield of Heracles	13	403
Short Sayings	22	260
Socratic group	22	234
Suka-Saptati	25	807
Sutra	26	108
Symposium	26	169
Tragedy, Greek	13	389
Ten Attic Orators	15	406
Theagenes and Chariclea	26	491
Theban cycle	26	504
Theogony	26	512
Thespis	26	548
Tragoedia	13	404
Trilogy	27	65
Tusculan Disputations of Cicero	10	508
Virgil's Eclogues	28	115

Biographies

AUTHORS

	Vol.	Page
Achilles Tatius	1	89
Ælianus Claudius	1	174
Ælianus Tacticus	1	174
Æneas Tacticus	1	175
Æschines	13	406
Æschylus	1	196
	13	389
	13	404
Aethiopis	1	203
Afer, Publius Terentius	26	442
Agathais	13	380
Agathon	1	233
Æsop	1	197
Agatharchides	1	233
Agartharcides	1	233
Agathias	1	233
	13	407
Albius Tibullus	17	94
Alcæus	1	341
Alciphron	1	344
Alcman	1	345
	13	404
Alexander of Ægæ	1	360
Alexander the Ætolian	1	360
Alexander of Aphrodisias	1	360
Alexander of Arrian	13	406
Alexander Cornelius	1	360
Alexander of Hales	1	367
	17	91
Alexander Numenius	1	360
Alexander the Paphlagonian	1	360
Alexander Philalethes	1	360
Alexander of Tralles	1	360
Ameto	21	375
Ammianus Marcellinus	1	573
	17	94
Anacreon	1	602
Anacreon of Teos	13	404
Andocides	1	663
	13	405
Anicius Manlius Torquatus Severinus Boethius	17	95

Classic — cont'd	Vol.	Page
Apuleius, Lucius	2	104
Archilochus	2	168
	13	404
Archilochus of Paros	13	408
Arion	2	235
	13	404
Arion of Lesbos	13	388
Aristarchus	2	235
	13	406
Aristophanes	2	238
	13	390
	13	405
Aristophanes of Byzantium	2	239
	13	406
Aristotle	2	243
	4	225
Arnobius	2	312
	17	94
Artemidorus	2	347
Asclepiades	2	381
Athenæus	2	498
Aulus Cornelius Celsus	17	94
Aulus Gellius	17	94
Aulus Persius Flaccus	17	94
Aurelius Augustinus	17	94
Aurelius Prudentius Clemens	17	94
Ausonius Decimus Magnus	2	559
Automendon	2	643
Babrius	3	7
Bacchylides	3	11
Bikelas Dimitrios	3	700
Bion	26	508
	26	509
Bion of Smyrna	3	722
	13	406
	21	375
Blossius Æmilius Dracontius	17	95
Boethius, Anicius Manlius Torquatus Severinus	4	151
	17	89
Cadmus of Miletus	5	134
	14	210
Cæcilius, Statius	5	136
Calgacus	1	242
Callimachus	5	227
	7	27
Callinus of Ephesus	5	228
	13	403
Calpurnius, Titus	5	235
Calvus, Gaius Licinius Macer	5	241
Canidia	5	500
Capella, Martianus Mineus Felix	5	550
Cato, D.	6	105
Catullus, G. V.	6	124
Chalcondylas, Demetrius	6	251
Chalcondylas, Laonicus	6	251
Chariton	6	309
Chrysoloras, Manuel	6	648
Cicero, Marcus Tullius	6	668
	17	321
Claudianus, Claudius, Claudian	7	62
	17	94
Cleomedes	7	88
Colonus	7	300
Cephalas, Constantinas	13	380
Corax	13	405
Corinna	7	691
Cornelius Nepos	17	94
	20	78
Crates of Athens	8	163
Crates of Mallos	8	163
Cratinus	8	163
Ctesiphon	1	195
Daphnis and Chloë	8	470

Classic — cont'd	Vol.	Page
Decimus Junis Juvenalis	17	94
Decimus Magnus Ausonius	17	94
Deinarchus	13	406
Demosthenes	8	672
	13	405
Diaconus Paulus	17	90
Dinarchus	9	124
Diodorus	9	133
Dion Cassius	9	134
Dionysius of Halicarnassus	9	136
	13	406
Ennius, Quintus	10	392
Epicurus	10	418
	17	321
Epimenides	10	426
Erinna	10	478
Euanthius	10	559
Eubulus	10	559
Eugippus	17	89
Eumæus	10	575
Eunuchus	10	576
Euphorion	10	577
Euripides	10	579
	13	404
	13	405
Eusebius	13	407
Eutropius	10	586
	17	94
Fannius Strabo, Gaius	11	11
Flaccus, Caius Valerius	11	306
Flaccus, Marcus Verrius	11	307
Flavius Magnus Aurelius Cassiodorus	17	95
Flaccus, Quintus Horatius	14	377
Furius, Marcus Furius Bibaculus	12	180
Gaius	12	230
	17	94
Gaius Julius Cæsar	5	138
	17	94
Gaius Lucilius	17	96
Gaius Plinius Cæcilius Secundus	17	94
	22	249
Gaius Plinius Secundus	17	94
	22	249
Gaius Sollius Apollinaris Sidonius	17	95
Gaius Sallustius Crispus	17	94
Gaius Suetonius Tranquillus	17	94
Gaius Valerius Catullus	17	94
Gaius Valerius Flaccus Setinus Balbus	17	94
Gaius Velleius Paterculus	17	94
Gallus, Caius Cornelius	12	251
Geminus	12	363
Gellius, Aulus	10	508
	12	362
Gnaeus Naevius	17	96
Gorgias	13	65
	13	405
Guarino Da Verona	13	516
Heliodorus	14	78
Hermogones	14	133
Herodas	14	141
Herodotus	14	137
Herondas	14	141
Hesiod	14	154
Hesiod of Ascra	13	403
Hieronymus	17	94
Hildebert	17	91
Hipponax of Ephesus	13	403
Homer	14	336
Horace	14	377
	16	99
	24	311

Classic — cont'd	Vol.	Page
Hostius	14	434
Hyginus, Gaius Julius	14	598
Hyperides	13	406
Ibycus	14	620
Ibycus Rhegium	13	404
Ion of Chios	15	290
Isæus	13	405
	15	406
	20	737
Isocrates	13	405
	15	415
	17	321
	20	737
Juvenal	11	259
	11	260
	16	99
	24	311
Juvenal (Decimus Junius Juvenalis)	16	269
Juvencus, Gaius Vetticus Aquilinus	16	270
Laberius, Decimus	16	589
Lactantius Firmianus	17	94
Lasus	16	761
Livius Andronicus	17	544
Longus	17	648
Lucan	17	713
Lucilius, Gaius	17	718
Lucian	13	406
	17	717
Lucius Accius	17	94
Lucius Annaeus Florus	17	94
Lucius Annaeus Seneca	17	94
Lucius Apuleius	17	94
Lucius Junis Moderatus Columella	17	94
Lucius Livius Adronicus	17	93
Lucretius, Carus Titus	17	719
Lycophron	17	771
Lycurgus	13	406
	17	771
Lysias	13	405
	17	787
Macrobius, Ambrosius Aurelius Theodosius	18	91
Macrobius Theodosius	17	95
Magnus Felix Ennodius	17	95
Marcus Annaeus Lucanus	17	94
	17	713
Marcus Aurelius Antoninus	17	94
	18	274
Marcus Aurelius Olympius Nemesianus	17	94
Marcus Cornelius Fronto	17	94
Marcus Fabius Quintilianus	17	94
Marcus Minucius Felix	17	94
Marcus Pacuvius	17	93
Marcus Porcius Cato	17	93
Marcus Terentius Varro	17	94
Marcus Tullius Cicero	17	94
Marcus Valerius Martialis	17	94
Marius the Epicurean	18	296
Martial	11	260
	16	99
	18	333
Martianus Capella	17	95
Maurus Rabanus	17	90
Meleager	13	380
	13	407
Meropius Pontius Anicius Paulinus	17	94
Mimnermus	19	144
Mimnermus of Smyrna	13	403
Moschus	13	406
	19	495
	21	375
	26	509

Classic — cont'd	Vol.	Page
Nævius, Gneius	19	679
Nemesianus, Marcus Aurelius Olympius	20	70
Nepos, Cornelius	20	78
Nicander	20	302
Nicephorus	20	311
Nicolaus of Damascus	20	328
Nonnus	20	396
Onomacritos	20	692
Oppian	20	716
Oppius, Caius	20	716
Ovid, Publius Ovidius Naso	21	61
Pacuvius, Marcus	21	91
Palladius, Rutilius Taurus Æmilianus	21	208
Pallis, Alexander	21	209
Parthenius	21	352
Persius Flaccus, Aulus	21	681
Petronius Arbiter	17	94
	21	695
Phaedrus	17	94
	21	702
Philetas of Cos	21	739
Philemon	21	739
Philochorus	21	767
Philolaus the Pythagorean	4	225
	21	767
Philoxenus	21	782
Phocylides	21	785
Photius	13	407
	21	797
Phrynichus	22	23
Physiologus	22	44
Pigris	22	81
Pindar	22	94
Pindar of Thebes	13	404
Pisistratus	13	388
	22	117
Planudes Maximus	13	380
Plato	4	225
	22	233
Plautus	22	241
Pliny	22	249
Pliny the Younger	17	328
	22	249
Plutarch	13	406
	22	259
Politianus, Angelus	22	309
Pollux, Julius	22	324
Polyænus	22	325
Pomponius, Lucius	22	346
Pomponius Mela	17	94
Pratinas	22	510
Priscianus	17	95
	22	601
Procopius	13	407
Prodicus	22	632
Prodromos	23	639
Propertius, Sextus	22	659
Protagoras	22	236
Ptochoprodromos	23	639
Publius Cornelius Tacitus	17	94
Publius Ovidius Naso	17	94
Publius Papinus Statius	17	94
Publius Terentius Afer	17	93
Publius Virgilius Maro	17	94
Quintilian	11	260
Quintilianus, Marcus Fabius	23	97
Quintus Aurelius Symmachus	17	94
Quintus Calaber	23	98
Quintus Curtius Rufus	17	94
Quintus Ennius	17	93
Quintus Horatius Flaccus	17	94
Sappho	24	291
Sappho of Lesbos	13	403
Scotus Sedulius	17	91
Semonides of Amorgos	13	403
Seneca	16	99
	17	322
Servius, Honoratus Maurus	24	605
Sextus Propertius	17	94
Silius Italicus	17	94
	24	812
Simonides	25	25
Simonides of Ceos	13	403
	13	404
Smyrnæus	23	98
Solon	13	388
	13	403
	25	244
Sophocles	1	196
	13	404
	25	261
Speusippus	4	225
	25	401
Statius, Publius Papinius	25	587
Stesichorus of Sicily	13	404
Strabo	25	706
Strato of Sardis	13	380
Suetonius	11	259
	25	789
Suidas	25	807
Symmachus, Quintus Aurelius	17	322
	26	165
Synesius	13	407
	26	174
Syrus, Publius	26	143
Tacitus	11	259
	11	260
	16	98
	26	202
Teisias	13	405
Terence	26	442
Terpander	13	403
	26	444
Thascius Caecilius Cyprianus	17	94
Theocritus	13	406
	26	508
Theagnes of Rhegium	13	408
Theognis of Megara	13	403
	26	512
Theophanes	13	407
Thespis	13	389
Thespis of Icaria	13	404
	26	548
Tibullus, Albius	26	607
Timotheus	26	635
Tisias	25	633
Titus Calpurnius Siculus	17	94
Titus Livius	17	94
Titus Lucretius Carus	17	94
Titus Maccius Plautus	17	93
	22	241
Tyrtæus	27	248
Valerius Cato, Publius	27	648
Valerius, Flaccus Setinus Balbus Caius	27	647
Valerius Maximus	10	508
	17	94
Varro, Marcus Terentius Reatinus	27	692
Varro, Publius Terentius	27	692
Venantius Honorius Clementianus Fortunatus	17	95
Virgil	4	542
	28	111
Xenocles	29	596
Xenophanes	13	403
Xenophon of Ephesus	29	597
Xenophon the Younger	29	597
Zenodotus	13	406
Zoilus	29	721

SCHOLARS

Classic — cont'd	Vol.	Page
Aufrecht, Theodor	2	539
Balde, Jakob	3	74
Bellenden, William	3	482
Bekker, Immanuel	3	451
Bergk, Theodor	3	546
Blackwell, Thomas	4	48
Blaydes, Frederic Henry Marvell	4	72
Blomfield, Charles James	4	103
Boeckh, August	4	148
Bonitz, Hermann	4	218
Brunck, Richard François Philippe	4	631
Burnet, John	5	56
Burnouf, Jean Louis	5	59
Butcher, Samuel Henry	5	76
Bywater, Ingram	5	102
Carter, Jesse Benedict	5	678
Courier De Méré, Paul Louis	8	113
Cowell, Edward Byles	8	134
Cowles, William Lyman	8	135
Creech, Thomas	8	174
Dacier, Anne Lefèvre	8	388
Darmesteter, James	8	479
Delitzsch, Friedrich	8	623
Derenbourg, Hartwig	8	712
Derenbourg, Joseph	8	712
Dieterici, Friedrich	9	101
Dittenberger, Wilhelm	9	197
Donner, Johann Jakob Christian	9	260
D'ôoge, Martin Luther	9	260
Drossinis, Georg	9	340
Ernesti, Johann August	10	481
Fairbanks, Arthur	10	716
Fairclough, Henry Rushton	10	718
Flagg, Isaac	11	324
Fritzsche, Franz Volkmar	12	114
Gaisford, Thomas	12	230
Gaza, Theodorus	12	349
Gercke, Alfred	12	495
Goodwin, William Watson	13	59
Greenough, James Bradstreet	13	437
Haase, Heinrich Gottlob Friedrich Christiani	13	601
Harkness, Albert	13	709
Liddell, Henry George	17	403
Lully, Raymond	17	92
Mahaffy, John Pentland	18	133
Müller, Friedrich Max	19	556
Ockan, William	17	92
Scaliger, Julius Cæsar	24	348
Stephanus, Henry	25	616
Stobæus, Johannes	25	655
Tzetzes, Johannes	27	248
Verrall, Arthur Woollgar	28	35
Walter of Chatillon	17	91
Xylander, Guilelmus	29	600
Zaluski, Josef Andrezel	29	688
Zonaras, John	13	407
	29	724

See also Biographies of Eminent Philologists and Scholars under **Language — General.**

POST-CLASSIC

Subjects

Abraham the Jew and the Merchant Theodore	1	48
Arcadia	2	148

Post-Classic — cont'd	Vol.	Page
Byzantine Period	13	407
literature	5	110
Codices of Canon and Roman law	17	92
Drama, Middle Age	9	305
Fragmenta Vaticana	11	571
Literature, Classical Byzantine	7	56
Literature, Latin, of the Middle Ages	17	88
Carolingian Period	17	90
Pre-Carolingian Period	17	89
Scholastic Period	17	91
Mediæval Romance	20	469
poetry	22	277
Pharsalia	19	708
Scholastic Period	17	91
Thesaurus Græcæ Linguæ	9	88
Vulgate, Latin	23	369

Biographies

Abelard, Peter	17	91
Adam of Saint Victor	17	91
Adelard of Bath	17	91
Ambrosius	17	94
Aquinas, Thomas	17	92
Basil	13	407
Bonaventure, Saint	17	92
Chrysostom, Saint	13	407
Columbanus	7	334
	17	90
Damasus (Pope)	17	94
Gregorius (the first Pope)	17	95
Gregory I	17	89
Gregory of Nazianzus	13	407
Gregory of Nyssa	13	407
Gregory of Tours	17	89
	17	95
Isidore, Bishop of Seville	17	90
Leo (the First, surnamed the Great)	17	95
Magnus, Albertus	17	92
Matthew of Paris	17	92
Melanchthon	17	322
Procopius	22	629
Saint Alexander	1	360
Scotus Joannes Duns	17	92
Vincent of Beauvais	17	92

UNITED STATES

Subjects

Academy of Arts and Letters	1	63
Agnes of Sorrento	1	238
Alhama	1	398
Alhambra, The	1	399
Ambassadors, The	1	470
Amber Gods, The	1	471
Ambitious Woman, An	1	472
America	1	495
American Agriculturist	1	249
American Almanac, The	1	431
American Commonwealth, The	1	510
American literature	1	528
	1	537
American Notes	1	548
Anarchiad	13	740
Annabel Lee	22	272
Artist's Letters from Japan, An	2	369
Aroostook, Lady of the	2	324
As It Was Written	2	373
Astoria	2	450
Athens of America	2	497
Autocrat of the Breakfast Table, The	2	641

United States — cont'd	Vol.	Page
Aurelian	2	553
Aztec Treasure-House, The	2	692
Backlog Studies	3	18
Battle of Eutaw Springs, The	12	87
Battle-Hymn of the Republic	3	346
Bay Psalm Book	3	360
	15	281
Beauties of Mythology	1	235
Bells, The	3	492
Ben Hur: A Tale of the Christ	3	498
Betsy and I Are Out	3	595
Biglow Papers, The	3	698
	17	701
Black Beauty, His Grooms and Companions	4	82
Blithedale Romance, The	4	90
Blue Books	4	124
Books by American Authors	22	785
Book of the Heart, A	23	446
Bostonians, The	4	304
Bowditch's Practical Navigator	4	360
Bradford Club	4	229
Bricks without straw	4	493
Brooklyn Historical Printing Club	4	229
Buccaneer, The	4	653
Bunker Hill Orations	5	25
Busbybody, The	5	76
Casting Away of Mrs. Lecks and Mrs. Aleshine, The	6	7
Cathedral, The	6	57
Chance Acquaintance, A	6	276
Choir Invisible, The	6	583
City of Destruction, The	6	716
Commemoration Ode	7	364
Congress, library of	7	508
Conquest of Mexico, The	7	535
Conquest of Peru, The	7	535
Connecticut Yankee in King Arthur's Court	7	532
Courtship of Miles Standish, The	8	127
Dred, A Tale of the Great Dismal Swamp	9	322
Droch	4	530
Early American books	22	783
Eleonora	22	272
Emerson's Essays	10	291
Essays from the Easy Chair	10	512
Evangeline	5	416
	10	590
	17	643
Evelina	10	595
Excelsior	10	618
Table for Critics, A	10	692
Fair God, The	10	714
Fall of the House of Usher, The	10	732
	22	272
	22	273
Fall of Palmyra, The	29	701
Fiction in America	11	175
First Woman of Letters in America	4	389
Flute and Violin	11	405
Foot	11	455
Fool's Errand, A	11	454
Franklin's Autobiography	12	17
Gettysburg Address	12	630
Gilded Age, The	24	544
Gold-bug, The	13	12
Golden Legend, The	13	27

United States — cont'd	Vol.	Page
Grandissimes, The	13	131
Great Stone Face	13	366
Grolier Club	4	229
	13	484
	14	308
Hartford Wits	13	740
	14	372
Hans Breitmann's Ballads	17	274
Hazard of New Fortunes, A	23	537
Hoosier Poet, The	23	524
Hoosier Schoolmaster, The	14	370
Horse-Shoe Robinson	14	415
House-boat on the Styx	14	445
House of the Seven Gables	14	447
Huckleberry Finn, The Adventures of	14	467
Ik Marvel	19	265
Indian Summer	23	537
In Ole Virginia	14	732
In the Tennessee Mountains	14	732
In the Valley	14	733
Joan of Arc, Personal Recollections	16	150
John Brown's Body	16	162
John Halifax, Gentleman	16	164
John Woolman's Journal	16	166
Josiah Allen's Wife	14	319
Knickerbocker History of New York, The	16	479
Lady of the Aroostook	16	644
Lady or the Tiger, The	16	645
Largest collections of "Crusoes," the	23	584
Last of the Mohicans, The	16	760
Leatherstocking Tales	17	201
Legend of Sleepy Hollow, The	17	241
Lenore	17	287
	22	272
Liberty Tree	17	353
Life Among the Lowly	27	269
Life in the Woods	28	220
Life of Washington	29	158
Little Lord Fauntleroy	17	521
Little Women	17	524
Log Cabin	13	420
Looking Backward, 2000–1887	17	649
Luck of Roaring Camp, The	17	718
	26	223
Man and Nature	18	193
Manuscript Found in a Bottle, A	22	272
Man Without a Country, The	18	192
Marble Faun, The	18	265
Merlin	18	676
Minister's Wooing, The	19	195
Miscellaneous books	22	785
Moby Dick	19	281
Modern Instance, A	19	286
	23	537
Mosses from an Old Manse	19	509
Mozis Addums	3	38
New Yorker, The	13	420
New York Author's Club	4	374
Nick of the Woods	20	321
No Name	20	381
Nothing to Wear	20	458
Old Creole Days	20	654
Old Folks at Home	20	655
Old Grimes	20	655
Old Kentucky Home	20	655
Old Oaken Bucket, The	20	656

United States — cont'd	Vol.	Page
Omoo: A Narrative of Adventures in the South Seas	20	684
Out of the Cradle Endlessly Rocking	21	54
Pathfinder, The	21	393
Periodical literature	21	591
Philip and His Wife	21	746
Poet at the Breakfast Table, The	22	274
Pond Law, The	22	348
Poor Richard	12	8
Poor Richard's Almanac	1	481
	22	355
Popular books	22	785
Potiphar Papers, The	22	448
Prince of India	22	583
Prince and the Pauper, The	22	588
Professor at the Breakfast Table, The	22	633
Progress and Poverty	22	635
Prince Society	4	229
Quaker Poet, The	23	36
Raven, The	22	272
Red books	4	124
Red Rover, The	23	284
Remus, Uncle	23	366
Republican	22	93
Reveries of a Bachelor	23	446
Richard Saunders	12	8
Rise of the Dutch Republic, The	23	536
Rise of Silas Lapham, The	23	536
Roycrofters	23	738
Roycroft Shop	14	463
Rudder Grange	23	752
School Books	22	785
Scarlet Letter, The	11	176
	24	357
Seventy-six Society	4	229
Snow-Bound	25	150
Song of Hiawatha, The	25	255
Song of Myself	25	255
Story of a Bad Boy, The	25	700
Straws	11	181
Sunnyside	26	38
Tales of the Arabesque and Grotesque	22	272
Tales of the Argonauts, The	26	223
Tales of a Traveller	26	224
Tales of a Wayside Inn	26	224
Tamerlane and Other Poems	22	272
Tanglewood Tales	26	242
To One in Paradise	22	272
Truth, The	27	116
Twice Told Tales, The	27	226
Two Years Before the Mast	27	230
Typee	27	238
Ulalume	22	272
Uncle Tom's Cabin	11	176
	22	785
	27	269
Undiscovered Country, The	27	276
Up from Slavery	24	504
	27	583
Uncle Remus	27	269
When Lilacs Last in the Dooryard Bloomed	29	254
White Whale, The	19	281
Wide, Wide World, The	29	295
Widow Bedott Papers	29	296
Willis' Mirror	13	420
X. Y. Z. Correspondence	27	355
	29	595
Yemassee, The	29	633
Zenobia	29	701

Biographies

United States — cont'd	Vol.	Page
Abbott, Lyman	1	18
Abbott, John Stephens Cabot	1	18
Abbott, Jacob	1	18
Abbott, Charles Conrad	1	17
Abbot, Willis John	1	15
Abbey, Henry	1	13
Adams, Abigail Smith	1	118
Adams, Brooks	1	119
Adams, Franklin Pierce	1	120
Adams, Samuel Hopkins	1	126
Adams, William Taylor	1	127
Ade, George	1	134
Adler, Felix	1	142
Aitkin, Robert	1	291
Alcott, Louisa May	1	350
Alden, William Livingston	1	353
Alden, John	1	353
Alden, Isabella McDonald	1	353
Alden, Henry Mills	1	353
Aldrich, Thomas Bailey	1	356
Alger, Horatio	1	394
Alger, William Rounseville	1	395
Allen, Alfred	1	412
Allen, Elizabeth Akers	1	413
Allen, Frederick De Forest	1	413
Allen, Fred Hovey	1	414
Allen, James Lane	1	415
Allen, William	1	416
Allibone, Samuel Austin	1	419
Allston, Washington	1	428
Alsop, Richard	1	443
Altsheler, Joseph Alexander	1	453
Ames, Charles Gordon	1	569
Anderson, Melville Best	1	660
Anderson, Rasmus Bjorn	1	660
Andrews, Christopher Columbus	1	674
Appleton, Daniel	2	89
Appleton, Thomas Gold	2	89
Appleton, William Henry	2	90
Arnold, George	2	315
Arnold, Isaac Newton	2	315
Armstrong, Robert Allen	2	286
Arp, Bill	25	114
Arthur, Timothy Shay	2	355
Atherton, Gertrude Franklin	2	497
Atkinson, George Wesley	2	501
Atkinson, Eleanor	2	500
Auringer, Obadiah Cyrus	2	555
Austin, William	2	563
Austin, Mary Hunter	2	562
Austin, Jane	2	561
Austin, George Lowell	2	561
Avary, Myrta Lockett	2	671
Azarias, Brother	2	688
Babbitt, Irving	3	4
Babcock, Winnifred Eaton	3	5
Bacheller, Addison Irving	3	16
Backus, Truman J	3	18
Bacon, Delia Salter	3	19
Bacon, Edwin Munroe	3	19
Bacon, Josephine Dodge Daskam	3	24
Bagby, George William	3	38
Bailey, Florence Augusta Merriam	3	50
Bailey, Gamaliel	3	50
Bailey, James Montgomery	3	50

United States — cont'd	Vol.	Page
Baird, Henry Martyn	3	56
Baker, George Pierce	3	60
Baker, Ray Stannard	3	61
Baker, William Mumford	3	61
Baldwin, Charles Sears	3	76
Baldwin, James	3	77
Balestier, Charles Wolcott	3	79
Ballou, Maturin Murry	3	110
Bangs, John Kendrick	3	145
Banks, Louis Albert	3	151
Barbara Frietchie	3	231
Barber, Edwin Atlee	3	235
Barbour, Ralph Henry	3	239
Barde, Frederick Samuel	3	244
Barlow, Joel	3	259
Barnard, Charles	3	263
Barnes, James	3	266
Barnum, Frances Courtenay (Baylor)	3	269
Barr, Amelia Edith	3	273
Barrows (Katharine), Isabel Hayes	3	284
Barry, John Daniel	3	285
Bartlett, John	3	293
Bartlett, John Russell	3	293
Bartlett, Joseph	3	294
Barton, William Eleazar	3	298
Bates, Arlo	3	329
Bates, Charlotte Fiske	3	329
Bates, Katharine Lee	3	329
Bayliss, Clara Kern	3	365
Beach, Rex	3	372
Beard, Daniel Carter	3	380
Beaucaire, Monsieur	3	388
Beauchamp, William Martin	3	388
Beecher, Catherine Esther	3	423
Beers, Ethel Lynn	3	429
Beers, Henry Augustin	3	429
Belasco, David	3	452
Bell, Lilian	3	476
Bellamy, Edward	3	479
Benjamin, Park	3	518
Benjamin, Samuel Green Wheeler	3	518
Bennett, James Gordon (2d)	3	520
Berenson, Bernhard	3	540
Bernard, William Boyle	3	570
Bethune, George Washington	3	598
Beveridge, Albert Jeremiah	3	672
Biddle, Richard	3	687
Bigelow, Edith Evelyn	3	695
Bigelow, John	3	696
Bigelow, Poultney	3	696
Biglow, William	3	698
Billings, John Shaw	3	706
Bird, Robert Montgomery	3	727
Bishop, William Henry	4	14
Black, Alexander	4	30
Blake, John Lourie	4	55
Blake, Mary Elizabeth	4	56
Blanchan, Neltje	9	275
Blanchard, Amy Ella	4	59
Bleecker, Ann Eliza	4	75
Bok, Edward William	4	177
Boker, George Henry	4	177
Bolles, Frank	4	192
Bolton, Charles Knowles	4	196
Bolton, Henry Carrington	4	196
Bolton, Sarah Knowles	4	196
Bolton, Sarah Little	4	197
Bonehill, Capt. Ralph	25	717
Bonner, Geraldine	4	219
Bosher, Kate Langley	4	287

United States — cont'd	Vol.	Page
Boughton, Martha Arnold	4	324
Bourne, George	4	352
Bouvet, Marie Marguerite	4	356
Bowker, Richard Rogers	4	364
Boyesen, Hjalmar Hjorth	4	374
Boyle, Virginia Frazer	4	376
Boynton, Henry Walcott	4	377
Brace, Charles Loring	4	380
Brackenridge, Hugh Henry	4	382
Brackenridge, Henry Marie	4	382
Bradford, Gamaliel	4	385
Bradstreet, Anne	4	389
Brady, Cyrus Townsend	4	390
Bridges, Robert	4	530
Brierley, Benjamin	4	535
Brigham, Sarah Jeannette	4	538
Bristed, Charles Astor	4	547
Brooks, Elbridge Streeter	4	594
Brooks, James Gordon	4	595
Brooks, Noah	4	595
Brougham, John	4	600
Brown, Abbie Farwell	4	602
Brown, Alice	4	603
Brown, Charles Brockden	4	603
	11	175
Brown, Helen Dawes	4	605
Brown, Kenneth	4	609
Browne, Charles Farrar	4	613
Browne, Francis Fisher	4	614
Browne, George Waldo	4	614
Browne, William Hand	4	617
Brownell, William Crary	4	618
Bruce, Philip Alexander	4	625
Bryant, John Howard	4	647
Bryant, William Cullen	4	648
	26	488
Bryce, Lloyd	4	649
Buck, Jirah Dewey	4	665
Bulfinch, Stephen Greenleaf	4	716
Bunce, Oliver Bell	5	23
Burdette, Robert Jones	5	35
Burgess (Frank), Gelett	5	38
Burleigh, George Shepard	5	49
Burnett, Frances Eliza Hodgson	5	56
Burroughs, John	5	66
Burt, Mary Elizabeth	5	67
Butterworth Hezekiah	5	90
Byers, Samuel Hawkins Marshall	5	95
Cable, George Washington	5	121
Cabot, James Elliott	5	126
Cahan, Abraham	5	145
Calef, Robert	5	190
Calkins, Franklin Welles	5	224
Calvert, George Henry	5	237
Campbell, Bartley	5	277
Candee, Helen Churchill	5	493
Campbell, Helen Stuart	5	278
Capen, Nahum	5	551
Carey, Matthew	5	607
	22	597
Carrington, Fitzroy	5	672
Carrington, Henry Beebe	5	672
Carruth, William Herbert	5	674
Cary, Alice	5	690
Cary, Phoebe	5	691
Carleton, Will	5	615
Casler, John Overton	5	705
Castlemon, Harry	11	526

United States — cont'd	Vol.	Page
Caton, J. D	6	107
Chadbourne, Paul A	6	242
Chalmers, George	6	255
Chamberlain, Mellen	6	261
Chambers, Robert William	6	264
Champlin, John Denison	6	275
Champney, Elizabeth W.	6	275
Chandler, Frank Wadleigh	6	286
Channing, Edward Tyrrel	6	289
Channing, William Ellery	6	291
Chapin, Anna Alice	6	296
Chapman, John Jay	6	298
Chatfield-Taylor, Hobart C.	6	351
Cheney, John Vance	6	411
Chenowith, Caroline van Dusen	6	412
Chesnutt, Charles Waddell	6	424
Chester, George Randolph	6	427
Chester, Joseph Lemuel	6	427
Child, Frank Samuel	6	461
Child, Francis James	6	460
Child, Lydia Maria Frances	6	461
Church, William Conant	6	653
Churchill, Winston	6	663
Church, Samuel Harden	6	653
Clapp, Henry Austin	7	32
Clark, Imogen	7	42
Clarke, Helen Archibald	7	47
Clarke, Edith Emily	7	46
Clarke, McDonald	7	48
Clemens, Samuel Langhorne	7	84
Clemens, Jeremiah	7	84
Clement, Ernest Wilson	7	86
Cleveland, Charles Dexter	7	92
Cloud, Virginia Woodward	7	129
Clinch, Charles Powell	7	113
Clymer, Ella Dietz	7	141
Cobb, Irvin Shrewsbury	7	174
Cobb, Sylvanus	7	174
Cobb, William Henry	7	174
Codman, John	7	197
Coffin, Charles Carleton	7	212
Cogswell, Joseph Green	7	215
Cohen, Alfred J	8	414
Cohen, Solomon Solis	7	216
Colby, Frank Moore	7	234
Cole, George Watson	7	241
Coles, Abraham	7	248
Collier, Robert Joseph	7	266
Collier, H. Price	7	265
Collitz, Hermann	7	271
Colton, Arthur Willis	7	332
Comstock, Harriet Theresa	7	454
Conant, Hannah O'Brien Chaplin	7	457
Conklin, Jennie Maria	7	523
Connery, Thomas Bernard Joseph	7	534
Conrad, Robert Taylor	7	536
Conway, Moncure Daniel	7	617
Conwell, Russell Herman	7	619
Corbin, Caroline Fairfield	7	679
Corbin, John	7	679
Cornwallis, Kinahan	7	716
Converse, Florence	7	610
Cook, Joseph	7	622
Cooke, Rose	7	625

United States — cont'd	Vol.	Page
Cooke, Grace MacGowan	7	624
Cooke, George Willis	7	624
Coolbrith, Ina Donna	7	632
Coolidge, Susan	29	507
Cooper, Lane	7	636
Cooper, James Fenimore	7	635
Cooper, Myles	7	636
Cooper, Ffederick Taber	7	635
Cooper, Susan Fenimore	7	637
Cox, Palmer	8	140
Craddock, Charles Egbert	19	605
Crallé, Richard K	8	152
Cram, William Everett	8	152
Cranch, Christopher Pearse	8	154
Crandall, Charles Henry	8	155
Crane, Ichabod	8	155
Crane, Stephen	8	155
Crane, Thomas Frederick	8	155
Crane, Walter	8	156
Crawford, Francis Marion	8	164
Crawford, John Martin	8	165
Crawford, John Wallace	8	165
Crawford, Mary Caroline	8	165
Crayon, Geoffrey	8	167
Creyton, Paul	8	190
Croffut, William Augustus	8	219
Croly, Jane Cunningham	8	221
Cronwright, Oliver Schreiner	24	402
Cross, Wilbur Lucius	8	229
Crowfield, Christopher	8	246
Cummins, Maria Susanna	8	301
Cunliffe, John William	8	302
Cupid Jones	24	208
Curtin, Jeremiah	8	316
Curtis, George William	8	317
	10	510
Curwood, James Oliver	8	331
Custis, George Washington Parke	8	336
Custer, Elizabeth Bacon	8	335
Cutter, George Washington	8	343
Cutting, Mary Stewart Doubleday	8	343
Dabney, Julia Parker	8	387
Dabney, Virginius	8	387
Daggett, Mary Stewart	8	391
Dahlgren, Madeleine Vinton	8	394
Daisy Miller	8	412
Dale, Alan	8	414
Dall, Caroline Wells Healey	8	416
Dana, Marvin	8	444
Dana, Richard Henry	8	445
Daniels, Cora Linn	8	457
Daniels, William Haven	8	457
Darley, F. O	8	478
	14	702
Darling, Flora Adams	8	478
D'Arusmont, Madame Frances	8	485
Davis, Charles Belmont	8	508
Davis, Rebecca Blaine Harding	8	512
Davis, Richard Harding	8	512
Davis, Varina Anne Jefferson	8	513
Davis, Varina Howell Jefferson	8	513
Dawes, Anna Laurens	8	515
Day, Holman Francis	8	518
Day, Richard Edwin	8	518
Dean, John Ward	8	537
De Costa, Benjamin Franklin	8	571

United States — cont'd	Vol.	Page
De Forest, John William	8	593
De Kay, Charles	8	603
De Koven, Anna Farwell	8	603
De Kroyft, Susan Helen Aldrich	8	604
Deland, Ellen Douglas	8	606
Deland, Margaret Wade (Campbell)	8	606
De Leon, Thomas Cooper	8	618
De Mille, Henry Churchill	8	638
De Mille, William Churchill	8	638
Deming, Philander	8	638
Depew, Chauncey Mitchell	8	702
Derby, George Horatio	8	710
De Selincourt, Mrs. Basil	24	523
Desmond, Humphrey J.	9	12
Deutsch, Gotthard	9	34
Dickinson, Anna Elizabeth	9	83
Dickinson, Charles Monroe	9	83
Dickinson, Martha Gilbert	9	84
Dimmesdale, Arthur	9	123
Dinsmore, Charles Allen	9	130
Dix, Beulah Marie	9	208
Dixon, James Main	9	211
Dixon, Thomas	9	212
Dixon, William Hepworth	9	212
Dixon, William Macnelle	9	212
Dodd, Frank Howard	9	218
Dodge, Mary Abigail	9	220
Dodge, Mary Elizabeth Mapes	9	220
Dodge, Walter Phelps	9	221
Dodgson, Charles Lutwidge	9	221
Dole, Helen Bennett	9	234
Dole, Nathan Haskell	9	234
Donnelly, Eleanor Cecilia	9	259
Donnelly, Ignatius	9	259
Dooley, Mr.	9	407
Dorr, Rheta Childe	9	267
Dorsey, Sarah Anne Ellis	9	269
Doubleday, Neltje De Graff	9	275
Doubleday, Russell	9	276
Douglas, Alice May	9	278
Downes, William Howe	9	288
Drake, Francis Samuel	9	302
Drake, Joseph Rodman	9	302
Drake, Samuel Adams	9	302
Drake, Samuel Gardner	9	303
Draper, Lyman Copeland	9	313
Dreiser, Theodore	9	325
Dromgoole, Will(iam) Allen	9	339
Du Bois, Constance Goddard	9	373
Dummer, Jeremiah	9	398
Dunbar, Paul Laurence	9	400
Duncan, Norman	9	401
Dunlap, William	9	405
	26	496
Dunn, Jacob Pratt	9	406
Dunn, Samuel Orace	9	406
Dunne, Finley Peter	9	406
Dunton, John	9	409
Dutton, Edward Payson	9	440
Dwight, Theodore	9	446
Dyer, Louis	9	451
Eames, Wilberforce	9	475
Earle, Alice Morse	9	486
Earle, Mortimer Lamson	9	486
Eastman, Max	9	513
Eaton, Arthur Wentworth Hamilton	9	516
Eaton, Seymour	9	517
Ebeling, Christoph Daniel	9	519
Edmunds, Albert Joseph	9	590
Edwards, George Wharton	9	707
Edwards, James Corson	9	707
Egan, Maurice Francis	9	720
Eggleston, Edward	9	729
Ellet, Elizabeth Fries Lummis	10	253
Elliott, Sarah Barnwell	10	254
Elmendorf, Theresa Hubbell West	10	260
Elsie Venner	10	265
Elton, Oliver	10	267
Emerson, Edward Waldo	10	286
Emerson, Oliver Farrar	10	286
Emerson, Ralph Waldo	10	286
Endicott, Charles Moses	10	319
English, Thomas Dunn	10	360
Erskine, John	10	485
Estes, Dana	10	522
Evans, Edward Payson	10	591
Evans, Elizabeth Edson Gibson	10	591
Everett, David	10	597
Everett, William	10	598
Ewbank, Thomas	10	615
Fabens, Joseph Warren	10	690
Fairfield, Sumner Lincoln	10	719
Fanny Fern	21	356
Farquharson, Martha	11	226
Farrar, Eliza Ware Rotch	11	48
Farmer, Henry Tudor	11	38
Fawcett, Edgar	11	70
Fay, Theodore Sedgwick	11	72
Felton, Cornelius Conway	11	106
Fellows, John	11	105
Fernald, Chester Bailey	11	128
Fernald, James Champlin	11	129
Fessenden, Thomas Green	11	152
Fields, Annie	11	186
Fields, James Thomas	11	186
Field, Edward	11	180
Field, Eugene	11	180
Field, Henry Martyn	11	181
Field, Joseph M.	11	181
Fisher, Frederick Henry	11	280
Fisk, Pliny	11	295
Fiske, Harrison Grey	11	296
Fiske, Stephen	11	297
Finch, Francis Miles	11	216
Finley, Martha (pseudonym of Martha Farquharson)	11	226
Fiske, Amos Kidder	11	295
Fiske, Stephen	11	297
Fitch, William Clyde	11	299
Flagg, James Montgomery	11	324
Fletcher, John Gould	11	349
Fleming, William Hansell	11	345
Flower, Benjamin Orange	11	390
Florio, John	11	380
Florian, Jean Pierre Claris de	11	366
Forbes, Harriette Merrifield	11	460
Ford, Paul Leicester	11	466
Ford, James Lauren	11	465
Ford, Henry Jones	11	465
Ford, Worthington Chauncey	11	466
Forman, Justus Miles	11	490
Ford, Jeremiah Denis Matthias	11	465
Forester, Fanny	16	237
Fortier, Alcée	11	514
Fosdick, Charles Austin	11	526
Foster, Theodosia Toll	11	530
Foster, David Skaats	11	528
Foulke, William D.	11	533
Fox, John William	11	564
Fowler, Harold North	11	562
Foote, Mary	11	458
Francis, Convers	11	757
Franklin, Benjamin	12	8
	24	320
Forester, Frank	14	119
Frederic, Harold	12	30
Freeman, Mary Eleanor Wilkins	12	51
Freer, Mrs. Otto	17	216
Frémont, Jessie Benton	12	58
French, Alice	12	60
French, Anne Warner	28	705
French, Fenimore Cooper	1	274
French, Henry Willard	12	61
Freneau, Philip	12	87
Friedman, Isaac Kahn	12	104
Frost, Arthur B.	12	124
	14	702
Fuller, Henry Blake	12	154
Fuller, Sarah Margaret	12	154
Funk, Isaac Kauffman	12	174
Furness, Horace Howard	12	181
Gale, Zona	12	234
Gardiner, John Sylvester	12	288
Garland, Hamlin	12	294
Garrett, Edmund Henry	12	297
Gates, Eleanor (Mrs. Frederick Ferdinand Moore)	12	335
Gay, Sidney Howard	12	347
Gayler, Charles	12	348
Geddes, James	12	354
Genung, John Franklin	12	404
Gilder, Jeannette Leonard	12	650
Gilder, Joseph Benson	12	651
Gilder, Richard Watson	12	651
Gilder, William Henry	12	651
Gilman, Caroline Howard	12	656
Gilman, Charlotte Perkins Stetson	12	656
Gilmore, James Roberts	12	657
Glasgow, Ellen Anderson Gholson	12	682
Glass, Montague (Marsden)	12	687
Glyndon, Howard	24	489
Godey, Louis Antoine	12	745
Godfrey, Thomas	12	746
Godkin, Edwin Lawrence	12	746
Goodale, Elaine (Mrs. Eastman)	13	57
Goodale, Dora Read	13	57
Goodrich, Charles Augustus	13	58
Goodrich, Frank Boot	13	58
Goodrich, Samuel Griswold	13	58
Goodwin, Maud Wilder	13	59
Goss, Charles Frederic	13	74
Goss, Warren Lee	13	74
Gould, Hannah Flagg	13	83
Grant, Robert	13	134
Green, Aella	13	427
Green, Anna Katherine	13	421
Green, Bartholomew	13	422
Green, Samuel Swett	13	423
Greene, Albert Gorton	13	427
Greene, Homer	13	428

United States — cont'd	Vol.	Page
Greene, Sarah Pratt McLean	13	431
Greene, William Batchelder	13	431
Grinnell, George Bird	13	429
Griswold, Rufus Wilmot	13	482
Gudeman, Alfred	13	522
Guild, Reuben Aldridge	13	534
Guiney, Louise Imogen	13	540
Gummere, Francis Barton	13	546
Gunsaulus, Frank Wakely	13	572
Gunther, Archibald Clavering	13	573
Guthrie, William Norman	13	580
Habberton, John	13	602
Hagedorn, Hermann	13	614
Hale, Edward Everett	13	632
Hale, Edward Everett, Jr.	13	632
Hale, Lucretia Peabody	13	634
Hale, Sarah Josepha Bell	13	635
Hale, William Bayard	13	635
Hale, William Thomas	13	635
Hall, Alexander Wilford	13	639
Hall, Bolton	13	640
Hallock, Charles	13	648
Halleck, Fitz-Greene	13	646
Hall, Ruth	13	643
Hall, James	13	642
Hall, Gertrude	13	641
Halsey, Francis Whiting	13	651
Hamilton, Gail	9	220
Hamilton, Kate Waterman	13	659
Hapgood, Isabel Florence	13	686
Harben, William Nathaniel	13	687
Harden, William	13	697
Hardy, Arthur Sherburne	13	705
Haring, Wilhelm	13	709
Harland, Henry	13	710
Harland, Marion	26	443
Harris, Amanda Bartlett	13	724
Harrison, Frederic	13	729
Harrisse, Henri	13	732
Harris, Joel Chandler	13	724
	23	366
Harris, Miriam Coles	13	724
Harrison, Constance Cary	13	729
Harper, Ida Husted	13	720
Hart, Albert Bushnell	13	732
Harte, Francis Bret	13	734
Hartmann, Moritz	13	742
Harvey, George Brinton McClellan	13	748
Harvey, William Hope	13	748
Haven, Alice Bradley	13	763
Hawthorne, Julian	14	9
Hawthorne, Nathaniel	14	9
Haywood, Marshall De Lancey	14	23
Hayne, Paul Hamilton	14	21
Hayne, William Hamilton	14	21
Hazard, Caroline	14	23
Hazard, Ebenezer	14	23
Hazeltine, Mayo Williamson	14	24
Heath, Daniel Collamore	14	50
Hedge, Frederic Henry	14	63
Heermans, Forbes	14	65
Heilprin, Louis	14	71
Heilprin, Michael	14	71
Helper, Hinton Rowen	14	86
Henry, O	22	393
Hepworth, George Hughes	14	111
Herbert, Henry William	14	119
Herbermann, Charles George	14	117
Herrick, Christine T	14	146
Herrick, Robert	14	149
Herrick, Sophie M. B	14	149
Herron, George Davis	14	150
Herndon, William Henry	14	134
Hewett, Waterman Thomas	14	161
Hibbard, George	14	164
Higginson, Ella Rhoads	14	176
Higginson, Mary Thacher	14	177
Higginson, Thomas W	14	177
Hildreth, Richard	14	186
Hillard, George Stillman	14	190
Hillhouse, James Abraham	14	190
Hinman, Russell	14	199
Hitchcock, James Ripley Wellman	14	298
Hobart, George Vere	14	301
Hoffman, Charles Fenno	14	309
Holmes, Oliver Wendell	10	510
	14	322
Holm, Saxe	14	321
Holmes, Mary Jane Hawes	14	322
Holloway, Laura Carter	14	319
Holley, Marietta	14	319
Holcombe, Chester	14	315
Hone, William	14	352
Hopkins, Alphonso Alvah	14	371
Hopkins, Lemuel	14	372
Hopkins, Margaret Sutton Briscoe	14	372
Hopkins, Pauline Bradford Mackie	14	373
Hopkinson, Francis	14	373
Hopkinson, Joseph	14	373
Hoppin, James Mason	14	374
Hosmer, James Kendall	14	426
Hough, Emerson	14	442
Houghton, Henry Oscar	14	442
Hovey, Richard	14	452
Howard, Bronson	14	452
Howe, Edgar Watson	14	455
Howe, Julia Ward	14	457
Howe, Mark Antony de Wolfe	14	457
Howells, William Dean	14	459
Howard, George Elliott	14	452
Hubbard, Elbert	14	463
Hubbard, Leonidas, Jr	14	464
Hudson, Henry Norman	14	470
Hughes, Rupert	14	479
Humphrey, Heman	14	495
Humphreys, David	14	496
Humphreys, Milton Wylie	14	497
Huntington, Archer Milton	14	517
Hunt, Theodore Whitefield	14	512
Hunt, Gaillard	14	510
Huntington, Faye	11	530
Hutson, Charles Woodward	14	530
Hutton, Lawrence	14	531
Hyde, William Dewitt	14	538
Ide, Fannie Ogden	14	660
Iles, George	14	676
Ingersoll, Charles Jared	15	129
Ingersoll, Robert Green	15	129
Ireland, Alleyne	15	308
Irving, Washington	10	510
	15	402
Irwin, Wallace	15	403
Jackson, Gabrielle Emilie (Snow)	15	578
Jackson, Edward Payson	15	578
Jackson, Helen Maria Fiske Hunt	15	579
Jacobs, Joseph	15	592
James, George Wharton	15	604
James, Henry	15	604
	18	51
James, William	15	606
Jameson, John Franklin	16	608
Janvier, Catharine Ann	15	618
Janvier, Margaret T	15	618
Janvier, Thomas Allibone	15	618
Jarves, James Jackson	15	749
Jenks, Tudor	16	15
Jerome, Thomas Spencer	16	27
Jewett Sarah Orne	16	59
Johnson, Clifton	16	170
Johnson, Helen Kendrick	16	171
Johnson, Owen	16	173
Johnson, Rossiter	16	174
Johnson, Robert Underwood	16	174
Johnson, Samuel	16	179
Johnson, Virginia Wales	16	180
Johnston, Alexander	16	184
Johnston, Annie Fellows	16	184
Johnston, Charles Haven Ladd	16	185
Johnston, Henry Phelps	16	185
Johnston, Mary	16	186
Jones, Amanda Theodosia	16	195
Jones, Charles Colcock, Jr.	16	196
Jordan, John Woolf	16	208
Josh Billings	24	665
Judson, Emily Chubbock	16	237
Judson, Sarah Hall	16	238
Junius Americanus	10	319
Kalisch, Isidor	16	284
Keidel, George C	16	335
Kelley, William Valentine	16	341
Kellogg, Elijah	16	342
Kelly, Myra	16	344
Kennedy, Charles Rann	16	355
Kennedy, John Pendleton	16	356
Kenyon, James Benjamin	16	373
Keppel, Frederick	16	375
Kester, Paul	16	382
Kester, Vaughan	16	383
Key, Francis Scott	16	385
Kidder, Frederic	16	400
Kieffer, Henry Martyn	16	406
Kilburn, Annie	1	719
Kimball, Arthur Lalanne	16	414
Kimball, Richard Burleigh	16	415
Kinney, Mrs. William Burnet	25	561
King, Charles	16	428
King, Grace Elizabeth	16	430
Kirke, Edmund	12	657
Kirkland, Caroline Matilda Stansbury	16	458
Kirkland, Joseph	16	458
Kittredge, George Lyman	16	467
Klein, Charles	16	470
Knapp, Charles	16	476
Knapp, Samuel Lorenzo	16	477
Knight, Sarah Kemble	16	482

United States — cont'd	Vol.	Page
Knowles, Frederic Lawrence	16	492
Krehbiel, Henry Edward	16	540
Kremnitz, Marie (Mite)	16	541
Lamb, Martha Joan Reade Nash	16	671
Lamberton, John Porter	16	674
Lamon, Ward Hill	16	677
Landon, Melville de Lancey	16	703
Lanier, Sidney	16	732
Lanman, Charles Rockwell	16	734
Larcom, Lucy	16	747
Lathrop, George Parsons	16	764
Lazarus, Emma	17	160
Lea, Homer	17	169
Leahy, William Augustine	17	177
Ladoux, Louis Vernon	17	215
Lee, Albert	17	216
Lee, Agnes	17	216
Lee, Eliza B	17	218
Lee, Gerald S	17	219
Lee, Jennette B. P	17	220
Leggett, William	17	243
Legler, Henry Edward	17	256
Leland, Charles Godfrey	17	274
Lemly, Henry Rowan	17	279
Lennox, Charlotte Ramsay	17	287
Lennox, Patrick Joseph	17	287
Lenox, James	17	288
Leslie, Eliza	17	316
Lester, Charles Edwards	17	318
Lewis, Charlton Thomas	17	333
Lewis, Estelle Anna Blanche	17	334
Lewis, Dio	17	333
Lieber, Franz	17	405
Lippincott, Horace Mather	17	470
Lippincott, Joshua Ballinger	17	471
Littell, Eliakim	17	520
Lloyd, John Yri	17	549
Lloyd, Nelson McAllister	17	550
Locke, David Ross	17	561
Logan, James	17	595
Lomax, John Avery	17	616
London, Jack	17	618
Long, John Luther	17	636
Long, William Joseph	17	636
Longfellow, Henry Wadsworth	17	642
Longfellow, Samuel	17	644
Longstreet, Augustus Baldwin	17	647
Loomis, Charles Battell	17	651
Lord, John	17	656
Loring, Charles Greely	17	663
Lose, George William	17	666
Lossing, Benson John	17	667
Lothrop, Harriet Mulford Stone	17	669
Longhead, Flora Haines	17	672
Lounsbury, Thomas Raynesford	17	690
Loveman, Robert	17	695
Low, A(lfred) Maurice	17	697
Lowell, Abbott Lawrence	17	699
Lowell, Edward Jackson	17	700
Lowell, James Russell	10	510
	17	700
Lowell, John	17	702
Lowell, Maria White	17	702
Lowell, Robert Traill Spence	17	703
Ludlow, James Meeker	17	721
Lummis, Charles Fletcher	17	737
Lynde, Francis	17	778
Lyon, David Gordon	17	780
Lytle, William Haines	17	788
Mabie, Hamilton Wright	18	2
MacCauley, Clay	18	21
MacDonald, William	19	38
Mac Kellar, Thomas	18	65
McCabe, James Dabney	18	16
McCarter, Margaret Hill	18	20
McChesney, Dora Greenwell	18	22
McCrackan, William Denison	18	30
McCosh, James	18	29
McCutcheon, George Barr	18	34
McGovern, John	18	49
McLaughlin, Andrew Cunningham	18	75
McMaster, John Bach	18	82
Mackaye, James Steele	18	64
Mackaye, Percy	18	64
	24	355
Mack, Norman Edward	18	63
Maclay, Edgar Stanton	18	76
	24	380
Macy, Jesse	18	92
Madison, Lucy Foster	18	100
Magruder, Julia	18	132
Major, Charles	18	156
Malone, Walter	18	169
Manly, John Matthews	18	227
Mansfield, Edward Deering	18	234
Marden, Orison Swett	18	276
Margolis, Max Leopold	18	281
Markham, Edwin	18	300
Marsh, George Perkins	18	323
Marshall, (Davis) Edward	18	325
Marshall, Orsamus Holmes	18	327
Martin, Edward Sanford	18	336
Martin, George Madden	18	337
Martin, Helen Reimensnyder	18	337
Martin, Winfred Robert	18	339
Marvin, Frederic Rowland	18	345
Masson, Thomas Lansing	18	417
Masters, Edgar Lee	18	418
Mathews, Abert	18	437
Mathews, Ferdinand Schuyler	18	437
Matthews, Franklin	18	443
Mathews, William	18	438
Mathews, William Smythe Babcock	18	438
Mayer, Brantz	18	464
Mayo, William Starbuck	18	468
Mead, Edwin Doak	18	473
Meline, James Florant	18	604
Melville, Herman	18	611
Meltzer, Charles Henry	18	610
Meriwether, Lee	18	676
Meyer, Annie Nathan	19	1
Middleton, George	19	42
Miles, George Henry	19	56
Miller, Cincinnatus Heine	19	117
Miller, Harriet Mann	19	119
Miller, Joaquin	19	117
Mills, Lawrence Heyworth	19	128
Mitchell, Donald Grant	10	510
	19	265
Mitchell, Hinckley Gilbert	19	266
Mitchell, Langdon Elwyn	19	267
Mitchell, Silas Weir	19	268
Moffett, Cleveland Langston	19	291
Moffat, William David	19	291
Moise, Penina	19	309
Monroe, Harriet	19	370
Moody, John	19	422
Moody, William Vaughan	19	423
Moore, Charles Leonard	19	428
Moore, Clement Clarke	19	428
Moore, Jacob Bailey	19	431
Mopes, Victor	18	259
More, Paul Elmer	19	444
Morgan, James Appleton	19	451
Morgan, Morris Hickey	19	454
Morris, Charles	19	474
Morris, Edward Joy	19	474
Morris, George Pope	19	474
Morris, Gouverneur	19	475
Morris, Harrison Smith	19	475
Morse, Hosea Ballou	19	483
Morse, John Torrey	19	483
Morton, Nathaniel	19	491
Moses, Bernard	19	500
Motley, John Lathrop	19	513
Moulton, Ellen Louise Chandler	19	520
Muhleman, Maurice Louis	19	549
Mullany, Patrick Francis	2	688
Munn, Charles Clark	19	594
Munroe, Kirk	19	596
Murfree, Mary Noailles	19	605
Nadal, Ehrman Syme	19	678
Nasby, Petroleum V	17	561
New, Clarence Herbert	20	111
Neal, John	20	21
Newhall, Charles Stedman	20	273
Nicholson, Meredith	20	320
Noble, Annette Lucile	20	385
Norris, Kathleen	20	407
Norris, Mary Harriott	20	407
Norton, Charles Eliot	20	434
Nutting, Mary Olivia	20	524
Nye, Edgar Wilson	20	525
Oakes, Urian	20	528
Ober, Frederick Albion	20	537
Ogden, Ruth	14	660
	20	605
O. Henry	22	893
Oppenheim, James	20	715
Orcutt, William Dana	20	752
Osbourne, Lloyd	21	18
Ossoli, Sarah Margaret Fuller, Marchioness	21	25
Owen, Mary Alicia	21	64
Page, Curtis Hidden	21	96
Page, Thomas Nelson	21	97
Paine, Albert Bigelow	21	104
Paine, Robert Treat	21	105
Pallen, Condé Benoist	21	209
Palmer, Frederick	21	212
Palmer, John Williamson	21	213
Palmer, Lynde	21	467
Pancoast, Henry Spackman	21	240
Parker, William Belmont	21	330
Parkes, Elizabeth Robins	21	331
Parkhurst, Howard Elmore	21	332
Parkman, Francis	21	333
Parley, Peter	13	58
Parsons, Theophilus	21	350
Parsons, Thomas William	21	351

United States — cont'd	Vol.	Page
Parton, Sara Payson Willis	21	356
Patch, Kate Whiting	21	379
Paton, William Agnew	21	401
Paulding, James Kirke	21	415
Payne, John Howard	21	433
Payne, William Morton	21	434
Payson, William Farquhar	21	435
Peabody, Josephine Preston	21	439
Peake, Elmore Elliott	21	450
Peck, George Wilbur	21	462
Peck, Samuel Minturn	21	463
Peck, Harry Thurston	21	463
Peck, Tracy	21	463
Peebles, James Martin	21	467
Peebles, Mary Louise Parmalee	21	467
Pendleton, Louise Beauregard	21	501
Percival, James Gates	21	571
Perkins, Charles Callahan	21	599
Perry, Bliss	21	606
Perry, Thomas Sergeant	21	607
Phelps, Austin	21	718
Phelps, Elizabeth Stuart	21	718
Phelps, William Lyon	21	720
Phillips, David Graham	21	762
Phillips, George Searle	21	762
Phillips, Wendell	21	764
Phœnix, John	8	710
Piatt, John James	22	61
Piatt, Sarah Morgan Bryan	22	61
Picard, George Henry	22	62
Pickard, Samuel Thomas	22	65
Pickering, John	22	66
Pidgin, Charles Felton	22	72
Pier, Arthur Stanwood	22	73
Pike, Albert	22	81
Pitkin, Timothy	22	121
Platner, Samuel Ball	22	233
Plympton, Almira George	22	265
Poe, Edgar Allan	10	510
	22	271
Pollard, Edward Albert	22	319
Pollard, Josephine	22	319
Pollard, Percival	22	320
Polock, Moses	22	325
Pond, Frederick Eugene	22	348
Pool, Maria Louise	22	353
Poole, William Frederick	22	354
Poore, Benjamin Perley	22	355
Porter, Charlotte	22	389
Porter, Gene Stratton	22	390
Porter, William Sydney	22	393
Porter, Noah	22	391
Posey, Alexander Lawrence	22	420
Post, George Edward	22	423
Post, Melville Davisson	22	423
Potter, Paul Meredith	22	453
Pound, Ezra Loomis	22	471
Powell, Edward Payson	22	475
Powell, Lyman Pierson	22	476
Pratt, Ella Farman	22	512
Pray, Isaac Clark	22	514
Prentiss, Elizabeth Payson	22	532
Preston, Margaret Junkin	22	559
Preston, Harriet Waters	22	559
Price, Ira Maurice	22	567
Priest, Josiah	22	571
Prime, Edward Dorr Griffin	22	577
Prime, William Cowper	22	578
Prince, Thomas	22	580
Proctor, Edna Dean	22	631

United States — cont'd	Vol.	Page
Proudfit, David Law	22	695
Prynne, Hester	22	723
Putnam, Mary Traill Spence Lowell	23	34
Quackenbos, John Duncan	23	57
Quincy, Edmund	23	92
Rabinowitz, Solomon	23	106
Ragozin, Zenäide Alexeievna	23	133
Ralph, Julian	23	198
Ralph, James	23	198
Raphall, Morris Jacob	23	217
Rawson, Albert Leighton	23	237
Rawle, William	23	236
Rayner, Emma	23	241
Ramsay, David	23	205
Ranous, Dora Knowlton	23	213
Randall, James Ryder	23	207
Raymond, George Lansing	23	239
Raymond, Evelyn Hunt	23	239
Ray, Anna Chapin	23	238
Read, John Elliot	23	245
Reait, Richard	23	254
Read, Thomas Buchanan	23	246
Read, Opie Percival	23	246
Remy, Alfred	23	367
Remy, Arthur Frank Joseph	23	367
Repplier, Agnes	23	385
Reed, Elizabeth Armstrong	23	293
Reed, Myrtle	23	293
Reid, Whitelaw	23	331
Reinsch, Paul, Samuel	23	335
Remington, Frederic	23	365
Rexford, Eben Eugene	23	450
Reid, Christian	26	619
Rhodes, James Ford	23	473
Riggs, Kate Douglas (Smith) (Wiggin)	23	519
Riley, James Whitcomb	23	523
Rinehart, Mary Roberts	23	527
Rines, George Edwin	23	527
Ripley, George	23	535
Ritchie, Anna Cora Ogden (Mowatt)	23	537
Rives-Wheeler, Hallie Erminie	23	555
Rice, Alice Hegan	23	485
Rice, Cale Young	23	385
Richards, John Morgan	23	492
Richards, Laura Elizabeth Howe	23	492
Richardson, Charles Francis	23	493
Riddle, Albert Gallatin	23	509
Ridgway, Robert	23	512
Robertson, James Burton	23	572
Robertson, Morgan	23	572
Roberts-Brigham, Henry	23	567
Robinson, Albert Gardner	23	578
Robins, Edward	23	578
Robinson, Theresa Albertine Louise von Jakob	23	583
Robinson, Edwin Arlington	23	580
Robinson, Charles Mulford	23	579
Roe, Edward Payson	23	624
Rogers, Robert	23	629
Rogers, Robert Cameron	23	629
Rogers, Robert Williams	23	629
Rohlfs, Mrs. Charles	13	421
Rolfe, William James	23	634
Roosevelt, Theodore	23	680

United States — cont'd	Vol.	Page
Ropes, John Codman	23	687
Runkle, Bertha Brooks	23	775
Russell, Charles Edward	23	784
Russell, Irwin	23	785
Sabin, Edwin Legrand	24	80
Sabin, Joseph	24	81
Sachse, Julius Friedrich	24	88
Sage, William	24	107
St. Clair, Victor	4	614
Sands, Robert Charles	24	237
Sanderson, John	24	255
Sanders, Henry Arthur	24	254
Sanborn, Katherine Abbott	24	247
"Sanborn Kate"	24	247
Saltus, Francis Saltus	24	208
Saltus, Edgar Everston	24	208
Salisbury, Edward Eldridge	24	185
Sanborn, Franklin Benjamin	24	247
Sangster, Margaret Elizabeth Munson	24	261
Sargent, Epes	24	303
Sargent, Winthrop	24	304
Saunders, Frederick	24	319
Saur, Christopher	25	319
Saunders, Richard	24	320
Savage, James	24	321
Savage, Richard Henry	24	322
Savidge, Eugene Coleman	24	328
Saxe, John Godfrey	24	339
Sayre, Theodore Burt	24	344
Scaife, Walter Bell	24	346
Schaff, David Schley	24	362
Schelling, Felix Emanuel	24	365
Schofield, William Henry	24	385
"Scholem Aleichem"	23	106
Schoolcraft, Henry Rowe	24	393
Schrader, Frederick Franklin	24	401
Schreiner, Olive	24	402
Scribner, Charles	24	455
Scribner, Frank Kimball	24	455
Scidmore, Eliza Ruhamah	24	412
Scollard, Clinton	24	424
Scott, Eben Greenough	24	439
Scudder, Horace Elisha	24	456
Scudder, Vida Dutton	24	457
Searing, Laura Catherine Redden	24	489
Sears, Joseph Hamblen	24	490
Sears, Lorenzo	24	490
Seawell, Molly Elliot	24	497
Sedgwick, Anne Douglas	24	523
Sedgwick, Catharine Maria	24	523
Sedgwick, Henry Dwight	24	524
Seitz, Don Carlos	24	534
Sellers, Col. Mulberry	24	544
Sewall, Jonathan Mitchell	24	624
Seymour, Thomas Day	24	633
Shackleton, Robert	24	636
Sharp, Dallas Lore	24	661
Shaw, Henry Wheeler	24	665
Sheldon, Charles Monroe	24	682
Sheldon, Edward Brewster	24	682
Sherman, Frank Dempster	24	703
Shirley, William	24	737
Shillaber, Benjamin Penhallow	24	710
Shoemaker, Michael Myers	24	741
Shufeldt, Robert Wilson	24	760
Shute, Henry Augustus	24	761

United States — cont'd	Vol.	Page
Sidney, Margaret	17	669
Sigourney, Lydia Huntley	24	804
Sill, Edward Rowland	25	8
Siegvolk, Paul	18	437
Simms, William Gilmore	25	23
Sinclair, Upton	25	31
Singer, Isidor	25	34
Singleton, Esther	25	39
Slosson, Edwin Emery	25	99
Smith, Benjamin Eli	25	113
Smith, Buckingham	25	113
Smith, Charles Henry	25	114
Smith, Elizabeth Oakes (Prince)	25	115
Smith, Francis Hopkinson	25	116
Smith, Harry Bache	25	119
Smith, Richard Penn	25	126
Smith, Roswell	25	126
Smith, Samuel Francis	25	126
Smith, Theodore Clarke	25	128
Smith, William Henry	25	129
Sneath, E. Hershey	25	145
Solberg, Thorvald	25	237
Southworth, Emma Dorothy Eliza Nevitte	25	317
Sower, Christopher	25	319
Spahr, Charles Barzillai	25	322
Spargo, John	25	359
Spear, Charles	25	365
Spearman, Frank Hamilton	25	366
Speed, John Gilmer	25	385
Spingarn, Joel Elias	25	414
Spofford, Harriet Elizabeth Prescott	25	427
Sprague, Homer Baxter	25	449
Spring, Levereth Wilson	25	451
Stanton, Frank Lebby	25	487
Stedman, Elizabeth Clementine	25	561
Stedman, Edmund Clarence	25	561
Steele, Joel Dorman	25	607
Steffens, Joseph Lincoln	25	610
Steiner, Bernard Christian	25	611
Stephens, Henry Morse	25	620
Stevens, Benjamin Franklin	25	635
Stevens, Henry	25	636
Stevens, John Austin	25	636
Stevens, Walter B	25	637
Stevenson, Burton Egbert	25	639
Stevenson, Edward Luther	25	639
Stille, Charles Janeway	25	649
Stillman, William James	25	650
Stockton, Francis Richard	25	662
Stoddard, Charles Augustus	25	665
Stoddard, Francis Hovey	25	665
Stoddard, Charles Warren	25	665
Stoddard, Elisabeth Drew Barstow	25	665
Stoddard, William Osborne	25	665
Stoddard, Richard Henry	25	666
Stokes, Frederick Abbott	25	669
Story, William Wetmore	25	700
Stowe, Harriet Elizabeth Beecher	25	705
Strang, Lewis Clinton	25	709
Stratemeyer, Edward	25	717
Street, Alfred Billings	25	724
Street, Julian Leonard	25	724
Strother, David Hunter	25	741
Strunsky, Simeon	25	742
Stuart, Ruth McEnery	25	747
Sumner, William Graham	26	18
Sutphen, William Gilbert Van Tassel	26	103
Swan, James	26	108
Swinton, John	26	141
Swisshelm, Jane Grey	26	142
Sweeny, William Montgomery	26	125
Tabb, John Banister	26	197
Taggart, Marion Ames	26	214
Tailfer, Patrick	26	216
Tappan, Eva March	26	264
Tarbell, Ida Minerva	26	266
Tarkington, (Newton) Booth	26	271
Taylor, Bert Leston	26	297
Taylor, Henry Osborn	26	299
Taylor, (James) Bayard	26	296
Taylor, James Munroe	26	299
Taylor, Mary Imlay	26	301
Teasdale, Sara	26	318
Tefft, Benjamin Franklin	26	324
Temple, Oliver Perry	26	407
Terhune, Albert Payson	26	442
Terhune, Mary Virginia Hawes	26	443
Teuffel, Blanche Willis Howard	26	457
Thacher, John Boyd	26	482
Thaxter, Celia Laighton	26	489
Thayer, Alexander Wheelock	26	489
Thayer, James Bradley	26	490
Thayer, John Adams	26	490
Thayer, William Makepeace	26	491
Thayer, William Roscoe	26	491
Thoburn, Joseph Bradfield	26	569
Thomas, Albert Ellsworth	26	571
Thomas, Augustus	26	571
Thomas, Edith Matilda	26	572
Thomas, John Jacob	26	573
Thomas, Isaiah	26	573
Thompson, Daniel Greenleaf	26	576
Thompson, Daniel Pierce	26	576
Thompson, James Maurice	26	578
Thompson, Joseph Parrish	26	579
Thompson, Robert Ellis	26	579
Thompson, Vance	26	580
Thomson, Charles	26	581
Thomson, Edward William	26	582
Thoreau, Henry David	26	586
Thornton, John Wingate	26	588
Thorpe, Rosa Hartwick	26	589
Thurston, Lucy Meacham	26	598
Ticknor, Francis Orrey	26	608
Tiernan, Frances Fisher	26	619
Tilton, Theodore	26	628
Timrod, Henry	26	637
Tincker, Mary Agnes	26	640
Todd, Charles Burr	26	666
Todd, Mabel (Loomis)	26	666
Tomlinson, Everett Titsworth	26	682
Tompson, Benjamin	26	683
Torrence, Frederic Ridgely	26	708
Torrey, Bradford	26	710
Tourgee, Albion Winegar	26	719
Townsend, Edward Waterman	26	727
Train, Elizabeth Phipps	26	765
Trent, William Peterfield	27	42
Trine, Ralph Waldo	27	66
Trowbetzkoy, Amélie Rives	27	96
Trowbridge, John Townsend	27	98
True, Charles Kittredge	27	103
Trumbull, Annie Eliot	27	104
Trumbull, Henry Clay	27	104
Trumbull, James Hammond	27	104
Trumbull, John	27	105
Tucker, George	27	128
Tuckerman, Bayard	27	130
Tuckerman, Henry Theodore	27	130
Tudor, William	27	131
Turner, Frederick Jackson	27	203
Turner, William Wadden	27	205
Twichell, Joseph Hopkins	27	227
Twombly, Alexander Stevenson	27	231
Tyler, Royall	27	233
Tyler, Lyon Gardiner	27	233
Tyler, Moses Coit	27	233
Ulmann, Albert	27	263
Underwood, Benjamin F.	27	275
Underwood, Francis H.	27	275
Untermeyer, Louis	27	582
Usher, Hezekiah	27	607
Vallentine, Benjamin B.	27	650
Vance, Louis Joseph	27	677
Vandegrift, Margaret	15	618
Van der Kemp, Francis Adrian	27	668
Van Dyke, Henry (Jackson)	27	671
Van Rensselaer, Mariana Griswold	27	673
Van Rensselaer, May King	27	673
Van Zile, Edward Sims	27	675
Veblen, Thorstein B	27	706
Venable, William Henry	27	725
Verplanck, Gulian Crommelin	28	35
Very, Jones	28	41
Victor, Orville James	28	66
Viele, Herman Knickerbocker	28	78
Vignaud, Jean Henry	28	84
Vincent, Leon Henry	28	96
Vischer, William Lightfoot	28	132
Visscher, William Lightfoot	28	141
Vivian, Thomas Jondric	28	156
Vizetelly, Frank (Francis) Horace	28	158
Voorsanger, Jacob	28	185
Wallace, Charles William	28	236
Wallace, Horace Binney	28	237
Wallace, Lewis	28	237
Walsh, James Joseph	28	247
Walsh, Thomas	28	248
Walworth, Ellen Hardin	28	252
Ward, William Hayes	28	700
Warman, Cy. G	28	705
Warner, Anne	28	705
Warner, Anna Bartlett	28	705
Warner, Charles Dudley	28	705
Warner, Susan	28	706

United States — cont'd	Vol.	Page
Warfield, Ethelbert Dudley	28	704
Warden, David Baillie	28	701
Ward, Nathaniel	28	699
Ward, Susan Hayes	28	700
Ward, Lydia Avery Coonley	28	699
Ward, Herbert Dickinson	28	698
Ward, Elizabeth Stuart Phelps	28	697
Warner, Charles Dudley	10	510
	28	705
Washburn, Charles Ames	28	770
Washington, George	28	773
Waters, Clara Erskine Clement	29	78
Waterloo, Stanley	29	70
Watson, John Fanning	29	110
Watson, Paul Barron	29	110
Watts, Mary Stanbery	29	114
Wayland, Francis	29	121
Webb, Charles Henry	29	142
Webster, Henry Kitchell	29	150
Webster, Jean	29	150
Webster, Pelatiah	29	151
Weeden, William Babcock	29	156
Weems, Mason Locke	29	158
Weir, James	29	173
Wells, Amos Russel	29	185
Wells, Benjamin Willis	29	185
Wells, Carolyn	29	185
Wendell, Barrett	29	191
Wenley, Robert Mark	29	191
West, James Harcourt	29	198
West, Paul	29	199
Wescott, Edward Noyes	29	220
Wetmore, Claude Hazeltine	29	229
Wetmore, Elizabeth Bisland	29	229
Wharton, Anne Hollingsworth	29	236
Wharton, Edith	29	236
Wharton, Thomas	29	236
Wheatley, Phillis	29	246
Whipple, E. P.	10	510
	29	256
White, John Blake	29	267
White, Richard Grant	29	268
White, Stewart Edward	29	268
White, William Allen	29	269
Whitman, Sara Helen Power	29	281
Whitman, Walt	29	281
Whitney, Adeline Dutton	29	282
Whitson, John Harvey	29	285
Whittier, John Greenleaf	29	286
Wiggin, Kate Douglas Smith	29	298
White, Eliza Orne	29	265
Whitcher, Frances Miriam Berry	29	264
White, Hervey	29	266
Whipple, Edwin Percy	29	256
Wheeler, Andrew Carpenter	29	250
Wignell, Thomas	26	496
Williams, Anna Bolles	29	338
Willard, Josiah Flynt	29	326
Wilde, Richard Henry	29	311
Wilcox, Ella Wheeler	29	302
Wilcox, Marrion	29	302
Wight, Orlando Williams	29	299
Williams, Francis Churchill	29	339
Williams, George Washington	29	340
Williams, Jesse Lynch	29	341
Williamson, Alice Muriel Livingston	29	346
Wilson, Augusta Jane Evans	29	356
Wilson, Floyd Baker	29	357
Wilson, Harry Leon	29	358
Wilson, James Grant	29	360
Wilson, Rufus Rockwell	29	362
Wilson, William	29	363
Winfield, Arthur M.	25	717
Winter, William	29	402
Winsor, Justin	29	401
Winthrop, Theodore	29	407
Wister, Annis Lee Furness	29	429
Wister, Owen	29	430
Winship, George Parker	29	399
Woolf, Benjamin Edward	29	506
Woolson, Constance Fenimore	29	508
Woolsey, Sarah Chauncey	29	507
Wolf, Emma	29	437
Wolfe, Theodore Frelinghuysen	29	441
Woodberry, George Edward	29	491
Woods, Katherine Pearson	29	498
Wormeley, Katharine Prescott	29	558
Work, Henry Clay	29	519
Wright, John Henry	29	569
Wright, Harold Bell	29	569
Wright, Mabel Osgood	29	569
Wright, Mary Tappan	29	570
Young, Alexander	29	642
Young, Arthur	29	648
Young, Franklin Knowles	29	650
Young, Jesse Bowman	29	651
Young, Julia Evelyn	29	651
Young, William	29	652
Zahm, John Augustine	29	681

Drama

Arrow-Maker, The	2	329
Chestnut Street Theatre	26	496
Children of Earth	6	485
Contract	9	309
Drama, American	9	309
Drama League of America	9	310
Drama Society	9	311
Dramatic Arts, American Academy of	9	311
Faith Healer, The	10	724
Fatal Deception, The	17	267
Girl of the Golden West	12	666
Great Divide, The	13	356
Leicester	17	267
Old Homestead	9	309
Our American Cousin	1	510
Play censorship	22	242
Players' Club	22	242
Scarecrow, The	24	355
Rip Van Winkle	16	1
	23	535
Theatre, the American	26	494
Uncle Tom's Cabin	9	309

Biographies

Aston, Tony	26	494
Belasco, David	3	472
Bernard, John	26	497
Bignall, John	26	497
Brown, Alice	6	485
Brown, William	26	497
Burke, John Daly	27	497
Caldwell, James H.	26	498
Clarke, John S.	29	498
Cohan, George Michael	7	215
Cooper, Thomas Althorpe	26	497
Daly, John Augustin	8	424
	26	499
Douglass, David	26	495
Drew, Mrs. John	26	498
Dunlap, William	9	405
	26	496
Field, R. M.	26	499
Forrest, Col. Thomas	26	495
Frohman, Charles	12	119
	26	499
Frohman, Daniel	12	119
	26	499
Godfrey, Thomas, Jr.	26	495
Hallam, Lewis	26	494
Henry, John	26	495
Irving, Henry	15	401
	26	499
Kean, Thomas	26	494
Kimball, Moses	26	499
Lindsay, Adam	29	496
Malloy, M. H.	26	499
Matthews, Brander	18	443
Moody, William Vaughn	13	356
Morris, Owen	26	495
Palmer, A. M.	26	499
Powell, Charles	26	497
Powell, Snelling	26	497
Reinagle, A.	26	496
Ryan, Dennis	26	496
Ryan, Mrs. Dennis	26	496
Sollee, M.	26	497
Tyler, Col. John S.	26	497
Tyler, Royall	26	496
	27	233
Wall, Thomas L.	26	495
Wallack, James W.	26	499
	28	239
Wallack, John Lester	26	499
	28	239
Warren, William	26	497
West, Thomas Ward	26	497
Wheatley, William	29	498
Williamson, John Brown	26	497
Wood, William Burke	26	497

ENGLAND

Subjects

Abbotsford	1	16
Abou Ben Adhem and The Angel	1	46
Absolom and Achitophel	1	52
	9	364
Acrasia	1	102
Adam Bede	1	116
	9	123
Adonais	1	149
Advancement of Learning, The	1	164
Adventures of a Gentleman, The	21	483
Ælfric, the Grammarian	1	174
Affectionate Shepherd, The	21	376
Age of Fable, The	1	235
Age of Reason, The	1	235
Ages of Chivalry, The	1	235
Albion's England	19	708
Alexander's Feast	1	371
	9	364
Alfred	19	708
Alice's Adventures in Wonderland	1	400
All for Love	1	406
	9	363
All Sorts and Conditions of Men	1	407
Allen-A-Dale	1	416

England — cont'd	Vol.	Page
All's Well that Ends Well	1	408
Almanacs	1	430
Alton Locke	1	452
Ambleside	1	472
American Notes	1	548
Analogy of Religion, The	1	607
Anatomy of Melancholy, The	1	650
Anatomy of Wit, The	10	577
Ancient Mariner, The	1	654
	19	707
"Annual Register"	13	315
Antiquary, The	2	38
Anti-Shakespearian Authorship	24	651
Aphara	3	448
Apology for the Life of Colley Cibber, An	2	67
Arcadia	2	148
Areopagitica	2	192
Argenis	2	195
Aristophanes' Apology	2	239
Armadale	2	263
Arrangement of Shakespeare Sonnets	24	658
Artful Dodger	2	350
Arthurian Romances, The	2	355
Asolando: Facts and Fancies	2	401
Asotus	2	401
Astræa, The Divine	2	451
Astrophel	2	472
Aurora Leigh	2	558
Autolycus	2	642
Auld Lang Syne	2	551
Auld Licht Idylls	2	551
Auld Robin Gray	2	551
Bab Ballads, The	3	3
Babes in the Wood	3	5
Bacon's Essays	10	511
Bacon's Letters	3	21
	17	323
Badman, The Life and Death of Mr.	3	35
Balaustion's Adventures	3	72
Bannatyne Club	3	210
	4	229
Barabbas; a Dream of the World's Tragedy	3	227
Barbara Allen's Cruelty	3	231
Barbox Brothers	3	239
Barchester Towers	3	241
Bardolph	3	245
Barkis	3	256
Barnaby Rudge	3	262
Barons' Wars	19	708
Barrack-Room Ballads	3	274
Barry Lyndon, The Memoirs of	3	287
Battle of Maldon, The	3	346
Battle of Dorking, The	3	346
Battle of the Books, The	3	345
	26	129
	26	222
Baviad and Mæviad, The	3	357
Beauties of Mythology, The	1	235
Beaux' Stratagem	3	397
Beatrice	3	387
Beatrice Cenci	3	387
Becky Sharp	3	409
Bedesman	3	414
Belarius	3	452
Belinda	3	469
Belle Savage	3	481
Ben Bolt	3	498
Benvolio	3	530
Beowulf	3	583
	19	708
	25	63
Beowulf of Britain, The	23	109
Beppo	3	534
Beside the Bonnie Brier Bush	3	585
Bible in Spain, The	3	671
Biographia Literaria	3	718
Biographic Significance of Shakespeare Sonnets	24	653
Birnam	4	8
Black Knight, The	4	37
Black-Eyed Susan	4	34
Bleak House	4	74
Bleeding Heart Yard	4	76
Blue-Stocking	4	127
Blue Books	4	124
Bluebeard	4	128
Boadicea	4	135
Boffin's Bower	4	152
Bolt Court	4	196
Bold Dragoon, The	5	285
Bondman, The	4	210
Bonduca	4	212
Book of Nonsense, A	4	233
Book of Snobs, The	4	233
Boz	4	377
Bride of Abydos, The	4	494
Bride of Lammermoor, The	4	494
Brobdingnag	4	569
Brut, Roman de	4	644
Byron's Letters	5	102
Byron's Tales	19	709
Cam and Isis	5	242
Cambuscan	5	234
Camden Society	4	229
	5	257
Camelot	5	259
Canterbury Tales, The	5	531
	19	709
Capulets and Montagues	5	575
Cassibelan	5	713
Castle of Otranto, The	6	8
Castle Rackrent	6	9
Caudle's Curtain Lectures	6	130
Cavalier Poets	6	135
Cecilia	6	160
Chaplain of the Fleet, The	6	296
Characteristics	6	301
Cheeryble Brothers	6	373
Chesterfield's Letters to His Son	6	428
Chevy Chase	6	432
Childe Harold's Pilgrimage	6	469
Children of the Abbey, The	6	485
of Gibeon	6	485
of the Ghetto	6	485
Christabel	6	598
Christian, The	6	600
Chronicles of Clovernook	6	637
of the Canongate	6	637
of the Schönberg-Cotta	6	637
Chrysal or The Adventures of a Guinea	6	646
Citizen, The	6	705
Citizen of the World	13	33
City of Dreadful Night, The	6	716
City of the Plague, The	6	718
Civilization, An Introduction to the History of	7	27
Claribel	7	38
Clarissa Harlowe	7	38
Cleomenes, or The Spartan Hero	7	88
Cloister and the Hearth, The	7	124
Cockaigne, Land of	7	185
Codex Exoniensis	10	638
Cœlebs in Search of a Wife	7	205
Colin Clout	7	252
Colin Clout's Come Home Againe	25	399
Coming Race, The	7	362
Compleat Angler, The	7	430
Confessions of An English Opium Eater, The	7	495
Coningsby	7	521
Cophetua	7	650
Cordelia	7	687
Corporal Trim	8	2
Corsair, The	8	23
Count Robert of Paris	8	102
Coverley, Sir Roger de	8	131
Cranford	8	158
Creation	24	621
Cricket on the Hearth	8	192
Dagonet	13	316
Daniel Deronda	8	456
Darby and Joan	8	472
Data of Ethics	8	490
Dauber	19	709
David Copperfield	8	502
	9	81
Decline and Fall of the Roman Empire, The	8	566
Dedlock, Lady	8	574
Deemster, The	8	576
Defense of Poesie, The	8	586
Della Cruscans	8	623
De Quincey's Autobiographic Sketches	8	707
Descent of Man and Selection in Relation to Sex, The	8	719
Desdemona	8	720
Deserted Village, The	9	7
	13	33
Devil's Walk, The	9	40
Devil Upon Two sticks, The	9	39
Devil's Thoughts	9	40
Diana of the Crossways	9	69
Dick, Mr.	9	79
Doctor Jekyll and Mr. Hyde, the Strange Case of	9	217
Doctor Syntax, the Three Tours	9	217
Dolly Varden	9	238
Dombey and Son	9	240
Don Juan	9	251
	19	708
Don Orsino	9	252
Dotheboys Hall	9	272
Drake	19	709
Drapier Letters	9	318
	26	130
Dromios, The	9	339
Dunciad, The	9	402
Dunsinane	9	408
Earthly Paradise, The	9	494
East Lynne	9	505
Eden of Dickens' Martin Chuzzlewit	5	150
Egoist, The	9	731
Elegy Written in a Country Churchyard	10	219
Elizabethan Period in English Literature	10	375
	25	55
Emma	10	295

England — cont'd	Vol.	Page
Endymion	10	324
Endymion and Phœbe	21	376
England's Helicon	10	359
English Chronicles	10	362
English literature	10	365
Elizabeth Period	10	375
	25	55
Middle Period	10	372
Victorian Period	10	382
English Mail Coach, The	10	386
English	23	452
poetry, spasmodic school of	10	387
romanticists	23	656
Enid	10	390
Enoch Arden	10	396
Epistle to Arbuthnot	10	434
to Augustus	10	434
Epicœne	10	417
Epipsychidion	24	690
Epithalamion	25	390
Essay on Criticism, An	10	510
Essay of Ella	10	512
Essay on Man, The	10	511
Essay on the Human Understanding, An	10	511
Essays of Bacon	10	511
Ettrick Shepherd, The	14	312
Eve of Saint Agnes, The	19	709
Evolution of the Troilus and Criseyde Story	27	83
Eugene Aram	10	566
Euphues and His England	10	577
Euphuism	10	577
	17	773
Everlasting Mercy, The	10	602
Excursion, The	10	620
Exeter Book	10	638
Fable of the Bees	10	692
Faerie Queene, The	10	708
	25	398
Faery Queene	19	708
Fair Maid of Perth, The	10	714
Far From the Madding Crowd	11	16
Fortunes of Nigel, The	11	523
Fowre Hymnes	25	398
Fra Lippo Lippi	11	568
Frankenstein	12	5
Frederick the Great	12	38
Freeholder, The	1	132
French Revolution, The	12	78
Frere's Translation of Aristophanes	12	88
Friday	12	102
Friar Bacon	12	100
Fudge Family in Paris	12	142
Gadshill	12	217
Geierstein, Anne of	12	358
Gentilesse	12	402
Gentle Shepherd	21	377
Gertrude of Wyoming	12	625
Gest of Robin Hood, A	19	708
Gibbon's Autobiography	12	642
Ginevra	12	658
Ginx's Baby	12	660
Goldyn Targe, The	24	436
Golden Treasury, The	13	28
Good Natur'd Man, The	13	33
Grangerizing	13	132
Gray's Elegy	10	370
	13	166
Greatest Epic in English	24	614
Great Expectations	13	356
Greens Groatsworth of Wit Bought with a Million of Repentance	24	646
Grub Street	13	503
Guinevere	13	540
Gulliver's Travels	13	544
	26	131

England — cont'd	Vol.	Page
Guy Mannering	13	583
Hakluyt Society	4	229
	13	629
Hamlet	13	662
Heart of Mid-Lothian, The	14	41
Henryson's 13 "Fables"	24	436
Heroes and Hero-worship	14	141
Hetty Sorrel	14	160
Highland Mary	9	407
Hind and the Panther, The	9	364
	14	193
History of Frederick II	5	626
History of Henry Esmond, Esq., The	26	484
Household Words	14	448
House of Life, The	14	446
Hudibras	14	467
Humphry Clinker	14	497
Hypatia	14	601
Iago	14	614
Idea of a University	14	662
Idylls of the King, The	14	670
	19	708
	26	433
Il Penseroso	14	676
Imaginary Conversations	14	706
Imitatio Christi	11	191
	14	710
Imitation of Christ	14	710
Ingoldsby Legends	3	250
	15	131
In Memoriam	14	731
	26	433
Isabella	15	406
Ivanhoe	13	162
	15	562
	24	444
Jane Eyre	15	611
Jean Christophe	15	765
Jessamy Bride, The	16	35
Johnson, Boswell's Life of	16	181
Jolly Beggars, The	16	193
Jungle Books, The	16	248
Junius, Letters of	16	251
Kenilworth	16	353
Kidnapped	16	401
Kilmeny	24	438
Kim	16	414
King's of Quair, The	24	436
Kubla Khan	16	551
Lady Bountiful	16	644
Lady of the Lake, The	16	645
	19	709
Lady of Shalott, The	16	645
Lake School, or Lakists	16	660
Lalla Rookh	16	663
L'Allegro	16	566
Lament for the Makars, The	24	436
Lamia	16	677
Land of Beulah	16	692
Laodamia	16	739
Last Days of Pompeii, The	16	759
Lavengro	17	118
Lay of the Last Minstrel	19	709
Lays of Ancient Rome	17	158
	19	707
Legend of Good Women	17	241
Legends of King Arthur, The	1	235
Letters to Dead Authors	17	321
Light that Failed, The	17	427
Lilliput	17	437
Life of Shakespeare	24	654
Light of Asia, The	17	422
Lillibullero	17	437

England — cont'd	Vol.	Page
Literature, English	10	365
Little Dorrit	17	520
Little Minister, The	17	521
Little Nell	17	521
Lives of the Ancient Grecians and Romans	22	260
of the Poets	17	539
Locke's "Essay Concerning Human Understanding"	10	508
Locksley Hall	17	563
Lord Ormont and His Aminta	17	657
Lord Ullin's Daughter	17	657
Lorna Doone	17	664
Lost Chord, The	17	667
Lothair	17	669
Lousiad, The	17	691
Lucile	17	718
Lucy Gray	19	707
Lycidas	17	770
MacFlecknoe	18	46
Macaulay, Trevelyan's Life of	18	13
Macaulay's Essays	18	12
Macbeth's Castle	9	408
Maid of Athens	18	138
Maid of the Mist	18	139
Maids Metamorphosis, The	21	376
Mansfield Park	18	235
Marivaux - Richardson Controversy	17	512
Marmion	18	304
	19	709
Master of Ballantrae	18	418
Maud	19	709
	26	433
Merchant of Venice, The	10	664
	18	664
Michael	19	11
Middlemarch	19	41
Midshipman Easy, Mr.	19	45
	19	545
Mill on the Floss, The	19	113
Miller's Tale of the Carpenter, The	19	123
Mirth and Marvels	15	131
Mirror for Magistrates, The	19	222
Modern Painters	19	286
Monastery, The	19	337
Morte D'Arthur	19	487
Mystery of Edwin Drood	19	665
Mysteries of Udolpho	19	665
Nelson, Life of	20	66
Never Too Late	21	376
Newcomes, The	20	265
	26	485
New Foes with An Old Face	14	601
Nightmare Abbey	20	341
Night Thoughts	20	339
Noctes Ambrosianæ, The	20	386
Noemi	20	389
Notorious Mrs. Effsmith, The	22	101
Nourmahal	20	462
Nut Brown Maid, The	20	508
Nun's Priest's Tale, The	20	500
Nydia	20	525
Oceana, or England and Her Colonies	20	566
Ode: Intimations of Immortality from Recollections of Early Childhood	20	579
to a Nightingale	20	580
to Duty	20	578
on a Grecian Urn	20	579
to the West Wind	20	580

England — cont'd	Vol.	Page
Old Curiosity Shop	9	81
	20	654
Old Mortality	20	655
	24	443
Oliver Twist	20	666
Ordeal of Richard Feverel, The	20	753
Oriana, the Triumphs of	20	793
Origin of species by means of natural selection	20	809
On Conciliation with America	20	685
Liberty	20	685
the Sublime and Beautiful	20	687
Othello	21	40
Our Mutual Friend	21	52
Palice of Honour	24	436
Pamela	23	495
Paradise Lost	19	708
	21	274
Paradise Regained	21	276
Past and Present	21	372
Paston Letters	17	322
	21	374
Paul Pry	21	414
Pearl, The	21	456
Pecksniff	21	464
Peg Woffington	21	471
Peggotty	21	471
Pendennis	21	500
	26	484
Pepys' Diary	21	568
Pericles, Prince of Tyre	21	585
Periodical literature	21	592
Peter Ibbetson	21	660
Peter Simple	21	661
Peveril of the Peak	21	698
Philip, the Adventures of	21	745
Philomela, the Lady Fitzwater's Nightingale	21	767
Philosophy of Clothes	5	625
Phineas Finn, the Irish Member	21	782
Phonetic Journal	22	122
Phonographic Journal, The	22	122
Pickwick Papers	9	80
	22	68
Pilgrim's Progress, The	22	85
Pippa Passes	22	112
Plain Tales from the Hills	22	149
Plutarch's Lives, North's Translation of	22	260
Poems and Ballads	26	137
Poet Laureate	4	530
	22	274
Polite Conversation	26	131
Polyolbion, The	22	335
Pope's Atticus	22	358
Essay on Man	10	508
Moral Essays	22	359
Pastorals	22	357
Satires and Epistles	22	359
Pot of Basil	15	406
Praise of Folly, The	22	508
Prelude, The	22	530
Princess, The	22	584
Pride and Prejudice	22	570
Prisoner of Chillon, The	4	222
	22	602
Professor, The	22	633
Progress of Poesy, The	22	635
Prolegomena ad Homerum	24	650
Prometheus Unbound	24	690
Proverbial Philosophy	22	705
Prue and I	22	713
Put Yourself in His Place	23	33

England — cont'd	Vol.	Page
Queen Mab	23	78
Quilp	23	90
Rab and His Friends	23	103
Raleigh's Poetry	23	197
Rambler, The	23	200
Rape of the Lock	22	358
	23	215
Rasselas	23	223
Ravenshoe	23	235
Realistic novelists	23	258
Rebecca	23	264
Redgauntlet	23	287
Reds of the Midi, The	23	290
Reflections on the Revolution in France	23	300
Rejected Addresses of James and Horace Smith	21	341
Rejected Addresses	23	336
Religio Medici	23	342
Reliques of Ancient English Poetry	23	363
Return of the Native, The	23	436
Revolt of Islam, The	24	689
Richard Lovelace	6	136
Rienzi, The Last of the Roman Tribunes	23	516
Ring and the Book, The	23	527
Risbas	21	376
Robin Hood Ballads, The	23	576
	23	577
Robinson Cruso	2	570
	23	584
Romanticism in England	23	656
Romola	23	676
Ross, The Man of	23	705
Rule Britannia	23	764
Runymede Letters	13	315
Saint Ronan's Well	24	168
Sartor Resartus	5	625
	9	522
	24	307
Satire upon the True-Blew Protestant Poet, T. S.	18	46
Saul	24	317
Scholar-Gipsy, The	24	385
Scottish Chiefs, The	24	447
Scott, Lockhart's Life of	24	446
Seasons, The	24	493
Second Mrs. Tanqueray, The	22	101
Sentimental Journey, A.	24	573
Sentimental Tommy	24	573
Serious Reflections	23	585
Seven Champions of Christendom, The	24	608
Seven Lamps of Architecture, The	23	782
	24	609
Seven Seas, The	24	609
Shakespeare, Authorship of	24	650
Shakespeare, Baconian Theory	24	651
editions	24	650
Shakespeare's comedies	24	649
historial plays	24	649
plays of doubtful authorship	24	649
real education	24	645
sonnets	24	649
	24	652
storehouse of learned history	22	260
tragedies	24	649
works	24	648
She	24	669

England — cont'd	Vol.	Page
Shepherd's Calendar	21	376
Shepherd's Complaint, The	21	376
Shepherd's Garland	21	376
She Stoops to Conquer	13	33
	24	669
Shepheard's Calendar	24	698
	25	397
Shepherd's Week	21	377
Silas Marner	24	809
Simple Story, A	25	26
Sir Gawain and the Green Knight	19	709
	25	45
Sohrab and Rustum	19	708
	25	225
Soldiers Three	25	238
Song to David	25	254
Songs of Innocence and of Experience	25	256
Sonnets from the Portuguese	25	258
Spasmodic School	25	364
Spectator	1	132
	25	371
Stationers' Hall	25	528
Stickit Minister, The, and Some Common Men	25	645
Stoke-Poges	25	668
Stones of Venice, The	23	782
	25	695
Stratford-upon-Avon	25	717
Susan Nipper	26	102
Swiss Family Robinson, The	26	141
Tale of a Tub, A	26	129
	26	222
Tale of Two Cities, A	26	223
Tales of the Crusaders	26	223
Tales of a Grandfather	26	223
Tales of the Mermaid Tavern	19	709
Tales of My Landlord	26	224
Tam O'Shanter	26	231
Tartana, or the Plaid	22	144
Task, The	26	279
Tatler	1	132
	26	283
Tawdry	10	533
Ten Thousand A Year	26	412
Tess of The D'Urbervilles	26	453
Testament of Cresseid	24	436
Teufelsdröckh	5	625
Thomson's "Seasons"	10	370
Thyrsis	24	385
Tintern Abbey	26	642
'Tis Sixty Years Since	29	116
Tittlebat Titmouse	26	654
To A Skylark	26	656
Tom Brown's School Days	26	678
Tom Jones	26	678
Tottel's Miscellany	10	378
	26	716
Transformation	18	265
Traveller; or, A Prospect of Society, The	13	33
	27	17
Treasure Island	27	23
Treatyses Pertynynge to Hawkynge, Huntynge and Fysshynge with the Angle, The	3	572
Traveler, The	27	17
Trend of Thought and Literature in the 19th Century, The	13	317
Trilby	27	64
Tristram of Lyonesse	26	137
Tristram Shandy	27	78

England — cont'd	Vol.	Page
Troilus and Cressida	27	82
Troilus and Criseyde	27	83
Troylus and Cryseyde	27	101
Turkish Letters	19	381
Tweedle dee	27	214
Tweedle dum	27	214
Una	27	269
Utopia	27	621
Vailima Letters	27	641
Vanity Fair	24	661
	27	684
Vanity of Human Wishes	27	685
Vathek	27	696
Veiled Prophet of Khorassan	2	490
Vicar of Wakefield, The	13	33
	28	57
Virginians, The	28	130
Virtue Rewarded	21	220
Vision of Judgment, The	28	140
Vision of Piers Plowman, The	28	141
Vox and the Wolf	23	452
Wake-Robin	28	217
Wallace, The	24	435
Water Babies, The	29	15
Water Poet	14	468
Waverley	29	116
Waverley novels	24	442
Way of All Flesh, The	29	120
Wealth of Nations	29	128
Westward Ho	29	228
Wild Irish Girl, The	29	307
Wittiest Poem ever Written in the English Language	14	467
Woodstock	29	499
World Well Lost, The	1	406
Wuthering Heights	29	578
Yahoo	29	605
Yellowplush Papers, The	29	629
Young's Travels	29	664
Zimri	29	710

Biographies

Abbott, Edwin Abbott	1	17
A'Beckett, Arthur William	1	34
A'Beckett, Gilbert Abbott	1	34
Ackermann, Rudolph	1	94
Acres, Bob	1	104
Addison, Joseph	1	131
Aiken, John	1	273
Ainger, Alfred	1	274
Ainsworth, William Harrison	1	274
Akenside, Mark	1	294
Alcuin	1	351
Alford, Henry	1	379
Allen, Grant	1	414
Alma-Tadema, (Miss) Laurence	1	432
Anwyl, Sir Edward	2	49
Appleton, Charles Edward Cutts	2	89
Arber, Edward	2	188
Archer, William	2	167
Armstrong, Sir Walter	2	286
Arnold, Edwin Lester	2	315
Arnold, Matthew	2	315
	10	372
	10	384
	10	510
	13	317
	13	318
	13	321
	24	385
Arnold, Sir Arthur	2	312
Arnold, Sir Edwin	2	315
Arnold, Thomas	2	218
Aschan, Roger	2	379
Ashby-Sterry, Joseph	2	384
Ashton, Lucy	2	388
Astor, William Waldorf	2	449
Atkinson, John Christopher	2	501
Aungerville, Richard	2	553
Austen, Jane	2	559
	10	383
Austin, Alfred	2	560
Austin, Sarah Taylor	2	562
Avenel, Mary	2	673
Babington, Churchill	3	6
Bacon, Francis	3	19
	17	511
Bacon, Roger	17	92
Bagehot, Walter	3	39
	10	384
Bagstock, Major Joe	3	44
Bailey, Nathaniel	3	51
Bailey, Philip James	3	51
Baillie, Harry	3	52
Baines, Edward	3	55
Baker, Henry	3	60
Baker, Sir Henry William	3	60
Baker, Thomas	3	61
Barbauld, Ann Letitia	3	234
Bardell, Mrs	3	245
Barham, Richard Harris	3	250
Baring-Gould, Sabine	3	252
Baring, Maurice	3	251
Barker, J. Ellis	3	256
Barnacle, Lord Decimus Tite	3	262
Barnes, Dame Juliana	3	572
Barnes, Joshua	3	267
Barnes, William	3	267
	10	382
Barnfield, Richard	3	268
Barrie, Sir James Matthew	3	279
Bartlett, William Henry	3	294
Barton, Bernard	3	296
Baxter, Lucy E	3	357
Bayly, Ada Ellen	3	366
Bayly, Thomas Haynes	3	366
Beaconsfield, Benjamin Disraeli, Lord	3	373
Beardsley, Aubrey	3	381
	14	702
Beattie, James	3	387
Beauclerk, Topham	3	389
Beaumont, Sir John	3	392
Beazley, Charles Raymond	3	400
Becke, George Lewis	3	404
Beckett, Arthur William à	3	407
Beckford, William	3	407
Bede, Cuthbert	4	387
Bede, Venerable, The	3	412
	17	90
Begbie, Harold	3	443
Bell, Charles Frederick Moberly	3	473
Bell, John Keble	3	476
Belloc, Hilaire	3	490
Benjamin, Lewis S	3	517
Bennet, Elizabeth	3	519
Bennett, (Enoch) Arnold	3	519
Bennett, William Cox	3	521
Benson, Arthur Christopher	3	523
Benson, Edward Frederic	3	523
Bentham, Jeremy	3	525
	13	320
Berkeley, George Charles Grantley Fitzhardinge	3	555
Berners, Dame Juliana	3	572
Berry, Mary	3	578
Besant, Annie	3	585
Besant, Sir Walter	3	585
Betham-Edwards, Matilda	3	590
Binns, Charles Fergus	3	717
Binyon, Laurence	3	717
Birrell, Augustine	4	9
Blackmore, Richard Doddridge	4	44
Blake, William	4	56
Blakey, Robert	4	58
Bland, Edith Nesbit	4	61
Blessington, Marguerite	4	81
Blind, Mathilde	4	82
Bloomfield, Robert	4	116
Blundell, (Mrs.) Francis	4	132
Blunt, Wilfrid Scawen	4	133
Bodley, John Edward Courtenay	4	145
Bohn, Henry George	4	163
Bois-Guilbert, Sir Brian	4	174
Boothby, Guy Newell	4	254
Borrow, George	4	283
	10	383
Boswell, James	4	304
Bourdillon, Francis William	4	349
Bourne, Vincent	4	353
Bowdler, Thomas	4	360
Bowles, William Lisle	4	365
Boyle, John	4	375
Braddon, Mary Elizabeth	4	384
Bradley, Arthur Granville	4	387
Bradley, Edward	4	387
Bradwardine, Baron	4	390
Brass, Sally	4	417
Brass, Sampson	4	417
Bray, Anna Eliza	4	423
Brewer, Ebenezer Cobham	4	475
Brick, Jefferson	4	489
Bridges, Frances Marshall	24	122
Bridges, Robert	4	530
Brontë, Anne	4	579
Brontë Charlotte	4	579
	10	383
Brontë, Charlotte, Mrs Gaskell's Life of	4	581
Brontë, Emily	4	579
Brooke, Stopford Augustus	4	591
Brooke, Mrs. Frances	4	589
Broughton, Rhoda	4	601
Brown, Thomas Edward	4	612
Browne, Edward Granville	4	613
Browne, Isaac Hawkins	4	614
Browne, Thomas	10	509
Browne, Sir Thomas	4	615
Browne, William	4	617
Browning, Elizabeth Barrett	4	619
	10	382
Browning, Robert	4	620
	10	382
	13	317
	13	318
Bryce, James	4	648
Bryden, Henry Anderson	4	650
Buchanan, Robert Williams	4	661
Buckle, Thomas	4	688
	13	321
Bullen, Frank Thomas	5	14

England — cont'd	Vol.	Page
Bulwer-Lytton, Edward George Earle	5	20
Bulwer, William Henry Lytton Earle	5	19
Burgin, George B.	5	39
Bunyan, John	5	27
Burgoyne, John	5	41
Burke, Edmund	5	45
	13	315
Burnand, Sir Francis Cowley	5	54
Burney, Frances	8	471
	17	323
Burnside, Helen Marion	5	62
Burton, Sir Richard Francis	5	69
Burton, Robert	5	69
Butler, Ellis Parker	5	79
Butler, Samuel	5	82
Byron, George Gordon	5	97
	13	532
Byron, Harriett	5	101
Cædmon	5	137
	24	621
Caine, (Thomas Henry) Hall	5	147
Calverley, Charles Stuart	5	237
Campbell, Thomas	5	280
Campion, Thomas	5	285
Canton, William	5	535
Capell, Edward	5	550
Capern, Edward	5	551
Capes, Bernard	5	552
Carabas, Marquis of	5	581
Carlisle, George William Frederic Howard	5	618
Carew, Richard	5	606
Carew, Thomas	5	606
	6	136
Carey, Rosa Nouchette	5	607
Carlyle, Thomas	5	624
	10	371
	13	317
	13	319
Carlyle, Thomas Dacre	5	624
Carnarvon, Henry Howard Molyeaux	5	631
Carpenter, William	5	654
Carr, Joseph William Comyns	5	661
Cary, Henry Francis	5	691
Carter, Elizabeth	5	678
Castle, E.	6	7
Cavendish, Margaret	6	150
Cavendish, G.	6	150
Caxton, William	6	153
Cayzer, Sir Charles William	6	156
Chadband, Rev. Mr.	6	242
Chaucer, Geoffrey	6	361
	10	373
	11	553
Chamier, Frederick	6	268
Chapman, George	6	297
Charges, Sir Thomas	13	315
Charles, Elizabeth Rundle	6	325
Chatterton, Edward Keble	6	360
Chatterton, Thomas	6	360
Chesney, Charles Cornwallis	6	423
Chesterton, Gilbert Keith	6	429
	10	372
Chesney, Sir George Tomkyns	6	424
Chesterfield, Lord	6	428
	17	323
Chettle, Henry	6	460

England — cont'd	Vol.	Page
Chorley, Henry Fothergill	6	593
Christie, Richard Copley	6	621
Chubb, Thomas	6	651
Church, Alfred John	6	652
Churchill, Charles	6	662
Clare, John	7	33
Clark, Albert Curtis	7	39
Clark, William George	7	45
Clarke, Charles Cowden	7	46
Clarke, Mary Victoria Novello Cowden	7	49
Clarke, Frances Elizabeth	13	122
Claypole, Noah	7	74
Cleveland, John	7	92
Clifford, Sir Hugh	7	103
Clifford, Lucy Lane	7	103
Clive, Catherine Raftor	7	117
Clodd, Edward	7	122
Clough, Arthur Hugh	7	132
Clowes, Sir William David	7	135
Clutterbuck, Captain Cuthbert	7	140
Cobbett, William	7	175
	13	315
Cockton, Henry	7	188
Coleridge, Hartley	7	244
Coleridge, Samuel Taylor	7	245
Coleridge, Sir John Taylor	7	245
Coleridge, Henry Nelson	7	245
Coleridge, Stephen	7	248
Collier, John Payne	7	266
Collingwood, William Gershom	7	267
Collins, Mortimer	7	268
Collins, John Churton	7	268
Collins, William	7	269
Collins, William Wilkie	7	270
Colman, George	7	274
Colvin, Sir Sidney	7	346
Combe, William	7	349
Condell, Henry	7	477
Cone, Helen Gray	7	485
Congreve, Richard	7	518
Conington, John	7	521
Conrad, Joseph	7	536
Constable, Henry	7	551
Conway, Robert Seymour	7	618
Cook, Eliza	7	620
Cooper, Thomas	7	638
Corbett, Julian Stafford	7	679
Corelli, Marie	7	690
Cornwallis, Caroline Frances	7	716
Cornwallis, Sir William	10	509
Cotgrave, Randle	8	57
Cotton, Charles	8	59
Cottle, Joseph	8	59
Courtney, William Leonard	8	126
Courthope, William John	8	125
Cowley, Abraham	8	135
Cowper, William	8	136
Cox, Sir George William	8	139
Crabbe, George	8	144
Craigie, Pearl Mary Teresa Richards	8	151
Craik, Dinah Maria	8	151
Craik, George Lillie	8	151
Cramb, J. A.	14	288
Crane, Walter	8	156
	14	702
Crashaw, Richard	8	161
Crawfurd, Oswald John Frederick	8	166
Creighton, Mandell	8	176
	13	321

England — cont'd	Vol.	Page
Croker, B. M. (Sheppard)	8	220
Crowe, William	8	246
Cust, Lionel	8	335
Cuttle, Captain	8	344
Currie, Lady Mary Montgomerie Lamb Singleton	8	314
Danby, Frank (Mrs. Julia Franklin)	8	446
Daniel, Samuel	8	452
	13	318
D'Arblay, Frances Burney	8	471
D'Arblay, Madame	8	471
Darley, George	8	478
Darmesteter, Agnes Mary Frances Robinson	8	479
Darwin, Charles	8	485
	13	317
	13	320
Davies, John	8	506
Davies, Sir John	8	506
Dawson, Coningsby (William)	8	516
Dawson, William Harbutt	8	517
Dawson, William James	8	517
Day, Thomas	8	519
De Bury, Richard	2	553
Defoe, Daniel	8	587
	10	509
	13	315
	23	584
D'Ewes, Sir Simonds	9	46
Dekker, Thomas	8	603
De Morgan, William Frend	8	672
Denham, Sir John	8	677
De Quincey, Thomas	8	705
	10	510
Dibdin, John Thomas	9	77
Dibdin, Thomas Frognal	9	77
	23	734
Dicey, Edward	9	78
Dickens, Charles	9	80
	9	83
	10	383
	13	317
	13	319
Dickens, Mary Angela Evans	9	83
Dickinson (Goldsworthy) Lowes	9	84
Digby, Sir Kenelm	9	108
Dilke, Charles Wentworth	9	119
Dillingham, John	13	314
D'Israeli, Isaac	9	169
Ditchfield, Peter Hampson	9	196
Dixon, Richard Watson	9	211
Dobson, Henry Austin	9	215
Domett, Alfred	9	241
Donne, John	9	258
	17	323
Dowden, Edward	9	286
Doudney, Sarah	9	276
Doyle, John Andrew	9	290
Doyle, Sir Arthur Conan	9	289
Doyle, Sir Francis Hastings Charles	9	290
Drayton, Michael	9	320
Dryden, John	9	362
Duff, Sir Mountstuart Elphinstone Grant	9	387
Dufferin, and Ava, Frederick Temple Hamilton-Temple Blackwood	9	387
Dugmore, Arthur Radclyffe	9	388

England — cont'd	Vol.	Page
Du Maurier, George Louis Palmella Busson	9	396
Dunbar, William	9	400
	10	374
Dunton, John	9	409
Durning-Lawrence, Sir Edwin	9	426
Dyce, Alexander	9	447
Dyer, George	9	450
Dyer, John	9	451
Eachard, Laurence	9	541
Earle, John	9	486
	10	509
Eastlake, Charles Locke	9	512
Eastlake, Lady (Elizabeth (Rigby)	9	512
Eastman, Charles Alexander (Ohiyesa)	9	513
Echard, Laurence	9	541
	9	583
Edgeworth, Maria	9	583
	10	383
Edmundson, George	9	591
Edwards, Amelia Blandford	9	706
Edwards, Bryan	9	707
Egan, Pierce (the younger)	9	721
Egerton, George	9	722
Egerton, Hugh Edward	9	722
Eliot, George	10	241
	10	383
	13	319
	13	321
Ellis, George	10	256
Ellis, Robinson	10	257
Ellwood, Thomas	10	258
Eothen, Alexander William Kinglake	10	409
Eusden, Laurence	10	584
Evans, John Gwenogvryn	10	592
Everett-Green, Evelyn	10	599
Everett-Green, Mary Anne	10	599
Evelyn, John	10	595
Ewing, Juliana Horatia Gatty	10	616
Fabell, Peter	10	690
Fairfax, Edward	10	718
Fairholt, Frederick William	10	719
Falconer, William	10	727
Fanshawe, Anne Harrison	11	12
Fanshawe, Catherine Maria	11	12
Fanshawe, Sir Richard	11	12
Fargus, Frederick John	11	19
Farjeon, Benjamin Leopold	11	21
Farmer, Richard	11	38
Fawcett, Millicent Garrett	11	71
Fea, Allan	11	74
Feltham, Owen	11	106
Fenn, George Manville	11	116
Fenton, Elijah	11	117
Field, Barron	11	179
Fielding, Henry	11	183
Fielding, Sarah	11	186
Findlater, Andrew	11	216
Fitzball, Edward	11	300
Fitzgerald, Edward	11	300
Fletcher, Giles	11	348
Fletcher, Phineas	11	349
Forbes, Archibald	11	460
Francillon, Robert Edward	11	754
Francis, M. E	4	132
Fraser, Mary	12	22

England — cont'd	Vol.	Page
Freeman, Edward Augustus	12	50
	13	321
Frere, John Hookham	12	88
Froude, James Anthony	12	127
	13	321
	14	238
Fullerton, Lady Georgiana Charlotte Gower	12	156
Fullwood, William	17	323
Furnivall, Frederick James	12	197
Gardner, Edmund Garratt	12	289
Garnett, Richard	12	295
Galsworthy, John	12	252
Gale, Norman Rowland	12	234
Gamp, Mrs. Sairey	12	271
Gaskell, Elizabeth Cleghorn Stevenson	12	328
Gaskell, William	12	329
Gay, John	12	346
George, W. L	12	479
George, Paston	26	168
Gifford, William	12	646
Gilbert, W. S	12	650
	14	702
Gissing, George	12	668
Glover, Richard	12	724
Glyn, Elinor	12	733
Godwin, William	12	749
Godwin, Mrs. Mary Wollstonecraft	12	749
Goldsmith, Oliver	10	509
	13	32
Goodwin, John	13	314
Gollancz, Israel	13	39
Gomme, Sir George Lawrence	13	42
Gosse, Edmund William	13	74
Gower, John	10	374
	11	553
Gower, Lord Ronald Sutherland	13	99
Gower, John	13	99
Grand, Sarah	13	122
Granger, James	13	132
Gray, Maxwell	27	212
Gray, Thomas	13	166
Greenaway, Kate	14	702
Greene, Robert	13	429
Green, Thomas Hill	13	317
Grosart, Alexander Balloch	13	486
Grocyn, William	13	483
Greville, Sir Fulke	13	463
Greswell, William Henry	13	462
Guiccioli, Teresa	13	532
Guthrie, Thomas Anstey	13	580
Habington, William	13	604
Haggard, Sir Henry Rider	13	615
Haggard, Andrew Charles Parker	13	615
Hake, Thomas Gordon	13	628
Hall, Anna Maria Fielding	13	639
Hall, Joseph	10	509
	13	643
Hall, Samuel Carter	13	644
Hallam, Arthur Henry	13	645
Hallam, Henry	13	319
	13	645
Halliwell-Phillipps, James Orchard	13	648
Harbington, William	6	136
Hardy, Edward John	13	705
Hardy, Iza Duffus	13	705
Hardy, Thomas	10	383
	13	705
Harraden, Beatrice	13	723

England — cont'd	Vol.	Page
Harrison, Mary St. Leger	13	730
Harvey, Gabriel	17	323
Harvey, Moses	13	748
Hatton, Joseph	13	758
Hawkins, Anthony Hope	14	7
Hazlitt, William	10	510
	14	24
Hazlitt, William Carew	14	25
Heinemann, William	14	74
Helps, Sir Arthur	14	86
Hemans, Felicia Dorothea Browne	14	87
Henham, Ernest George	27	50
Henley, William Ernest	14	96
Henty, George Alfred	14	109
Herbert, Edward	14	118
Herford, Oliver	14	128
Herrick, Robert	14	147
Hewlet, Maurice Henry	14	162
Hichens, Robert Smythe	14	168
Hoccleve, Thomas	20	555
Hocking, Silas Kitto	14	307
Hocking, Joseph	14	306
Holt, Felix	11	104
Hood, Edwin Paxton	14	360
Hood, Thomas	14	361
Hope, Anthony	14	7
Horne, Hengist	14	384
Horne, Richard Henry	14	384
Houghton, Richard Monckton Milnes	14	443
Housman, Laurence	14	448
Howitt, Mary	14	460
Howitt, William	14	460
Howorth, Sir Henry Hoyle	14	460
Hudson, W. H	14	470
Hudson, William Henry	14	470
Hughes, Thomas	14	480
Hume, Fergus	14	492
Hunt (James Henry), Leigh	14	510
Hunt, Leigh	13	317
Hutton, Edward	14	531
Hutton, Richard Holt	14	531
Inchbald, Elizabeth Simpson	14	740
Ingelow, Jean	15	128
Ingleby, Clement Mansfield	15	131
Ingram, John Kells	15	132
Ireland, William Henry	15	309
Jacks, Lawrence Pearsall	15	573
Jacobs, William Wymark	15	592
James, Florence	15	604
James, George P. R	15	604
Jameson, Anna Brownell Murphy	15	608
Jane, Fred T	15	611
Jeaffreson, John Cordy	15	764
Jebb, Richard Claverhouse	15	766
Jefferies, Richard	15	767
Jeffrey, Francis	10	510
	16	7
Jenkins, John Edward	16	13
Jephson, Robert	16	16
Jepson, Edgar	16	17
Jerome, Jerome Klapka	16	26
Jerrold, William Blanchard	16	28
Jesse, John Henaage	16	35
Jewsbury, Geraldine Endsor	16	145
Jewsbury, Maria Jane	16	145
Johnson, Samuel	10	509
	16	175
Keary, Charles Francis	16	328

England — cont'd	Vol.	Page
Keats, John	16	329
Keble, Howard	3	476
Keble, John	16	331
Keeble, Samuel Edward	16	332
Kemble, John Mitchell	16	348
Kennett, Robert Hatch	16	357
Kennett, White	16	358
Kenney, Charles Lamb	16	358
Kennicott, Benjamin	16	358
Kenyon, Sir Frederick George	16	373
Kühne, Ferdinand Gustav	16	552
King, Leonard William	16	431
King, William	16	433
Kinglake, Alexander William	16	442
Kingsford, Charles Lethbridge	16	446
Kingsley, Charles	13	321
	14	238
	16	446
Kipling, Rudyard	16	453
Kitchin, George William	16	465
Kitton, Frederic George	16	467
Knight, Charles	16	481
Knight, Ellis Cornelia	16	482
Knolles, or Knowlles, Richard	16	489
Lamb, Charles	10	510
	16	669
	17	324
Lamb, Mary Ann	16	671
Landon, Letitia Elizabeth	16	708
Landor, Walter Savage	16	708
Lane, Edward William	16	713
Lane, Ralph Norman Angell	16	714
Lang, Andrew	16	715
Langhorne, John	16	720
Langland, William	10	374
	11	553
Langlande, Lange-Lande, or Longland, William	16	720
Lawley, Alethea J. W.	17	143
Lawrence, George Alfred	17	145
Leaf, Walter	17	174
Lecky, William Edward Hartpole	13	321
	17	210
Lee-Hamilton, Eugene	17	227
Lee, Harriet	17	219
Lee, S. Richmond	29	644
Lee, Sir Sidney	17	225
Lee, Sophia	17	225
Le Gallienne, Richard	17	165
Lehmann, Rudolph Chambers	17	260
Lemprière, John	17	282
Lee Queux, William	17	168
Lever, Charles	10	383
	17	327
Lewis, Matthew Gregory	17	335
Lighton, William R.	17	435
Lilly, William Samuel	17	437
Lingard, John	17	459
Linton, Eliza Lynn	17	467
Locke, William John	17	562
Locker-Lampson, Frederick	17	562
Lockhart, John Gibson	10	510
	17	562
Logan, John	17	595
Long, George	17	635
Lovelace, Richard	17	695
Low, Sampson	17	697
Lowe, Charles	17	698
Lowndes, Marie Adelaide Belloc	17	705
Lubbock, John	17	711
Lucas, Edward Verrall	17	714

England — cont'd	Vol.	Page
Lucy, Sir Henry	13	316
	17	719
Ludlow, John Malcolm Forbes	17	721
Lyall, Alfred Comyn	17	767
Lydgate, John	17	772
Lyly, John	10	578
	17	773
Lytton, Edward Robert Bulwer-Lytton	17	788
McCabe, Joseph	18	17
Macaulay, Thomas Babington	10	371
	13	317
	13	319
	18	10
Macaulay, Catherine Sawbridge	18	9
Mackay, Charles	18	63
Mackay, George Eric	18	63
Mackenzie, Compton	18	68
Mallock, William Hurrell	18	167
Malleson, George Bruce	18	167
Malory, Sir Thomas	10	374
	18	170
Mandeville, Bernard de	18	206
Mandeville, Sir John	18	206
Manley, Mary de la Rivière	18	227
Manning, Robert	18	231
Mannying, Robert	18	231
Maitland, Edward	18	152
Maitland, Frederic William	18	153
Map, Walter	18	252
Mapes, Walter	18	252
Margoliouth, David Samuel	18	281
Marryat, Frederick	10	386
	18	319
Marryat, Florence	18	319
Marshall, Emma Martin	18	325
Martin, Sir Theodore	18	338
Martin, Percy F.	18	338
Martineau, Harriet	18	339
Marvell, Andrew	18	344
Masefield, John	18	377
Mason, Alfred Edward Woodley	18	379
Mason, William	18	383
Massey, Gerald	18	415
Maurice, Frederick D.	13	321
Maxwell, John	4	384
May, Thomas	18	461
Mayhew, Henry	18	466
Meakin, Budgett	18	476
Meredith, George	9	69
	18	670
Meredith, Owen	18	672
Merivale, Herman Charles	18	675
Merrick, Leonard	18	679
Merriman, Henry Seton	24	440
Meynell, Alice Thompson	19	5
Michel of Northgate	19	14
Michel, Dan	19	14
Miller, Florence Fenwick	19	118
Milman, Henry Hart	19	130
Milton, John	19	133
Mill, James	13	320
Mill, John Stuart	13	317
	10	384
	13	320
	19	110
Mitford, Mary Russell	19	270
Mockler-Ferryman, Augustus	19	282
Molesworth, Mary Louisa Stuart	19	323

England — cont'd	Vol.	Page
Monier-Williams, Sir Monier	19	356
Monkhouse, William Cosmo	19	360
Montagu, Lady Mary Wortley	17	323
	19	380
Montagu, Elizabeth Robinson	19	380
Moore, Edward	19	429
Moore, George	19	430
Morgan, John Hartman	19	452
Morier, James Justinian	19	458
Morison, James Augustus Cotter	19	459
Morley of Blackburn	10	384
	19	461
Morley, Henry	19	461
Monypenny, William Flavelle	19	421
More, Thomas	19	444
More, Hannah	19	443
Morris, Sir Lewis	19	476
Morris, William	10	382
	13	318
	19	477
Morrison, Arthur	19	480
Muddock, Joyce	19	548
Muddiman, Henry	13	315
Mullinger, James Bass	19	560
Munby, Arthur Joseph	19	562
Murray, George Gilbert Aimé	19	609
Naden, Constance Caroline Woodhill	19	678
Nedham, Marchmont	13	314
Newbery, John	20	261
Newbolt, Sir Henry John	20	261
Newman, Francis William	20	274
Newman, John Henry	13	321
	20	274
Newnes, George	13	315
	20	277
Nicholson, Reynold Alleyne	20	320
Nipper, Susan	20	368
Noel, Roden Berkeley Wriothesley	20	389
Noel, Thomas	20	389
North, Sir Thomas	20	410
Northcliffe, Lord	13	315
	20	427
Norton, Caroline Elizabeth Sarah Sheridan	20	434
Noyes, Alfred	20	479
Nutt, Alfred Trubner	20	522
Oates, Titus	13	315
	20	531
Occleve Thomas	20	555
Ogilby, John	20	606
Oldmixon, John	20	658
Oliphant, Margaret Wilson	20	663
Ollivant, Alfred	20	667
Onions, Oliver	20	690
Oppenheim, E. Phillips	20	715
Osborne, Dorothy	21	17
O'Shaughnessy, Arthur	10	382
	21	19
Ouida	21	52
Overbury, Sir Thomas	21	59
Owen, John	21	63
Oxenham, John	21	71
Paget, Violet	21	103
Pain, Barry	21	104
Palgrave, Francis Turner	21	204
Paris, Matthew	21	300

England — cont'd	Vol.	Page
Parker, Sir (Horatio) Gilbert	21	327
Parr, Louisa Taylor	21	342
Parton, James	21	356
Pater, Walter	10	372
	10	384
	13	320
	21	358
Paterson, William Romaine	21	390
Patmore, Coventry Kearsey Dighton	21	399
Paul, Charles Kegan	21	413
Paul, Clifford	21	414
Payn, James	21	432
Payne, John	21	433
Peacock, Thomas Love	21	449
Peard, Frances Mary	21	454
Pearson, Sir Arthur	13	315
	21	457
Pecock, Reginald	10	374
	21	464
Pemberton, Max	21	491
Pennant, Thomas	21	517
Pennell, Henry Cholmondeley	21	517
Pepys, Samuel	21	567
Percy, Thomas	21	573
Phaer, Thomas	21	703
Phayer, Thomas	21	703
Philips, Ambrose	21	760
Philips, Edward	21	760
Philips, John	21	760
Philips, Katherine Fowler	21	760
Phillips, John	21	760
Phillips, Stephen	21	763
Phillpotts, Eden	21	766
Phillips, Sir Thomas	21	762
Pindar, Peter	29	436
Piozzi, Hester Lynch Salisbury	22	106
Plymley, Peter	22	261
Pococke, Edward	22	270
Pollock, Walter Kerries	22	324
Poole, Reginald	22	354
Pope, Alexander	22	357
Porson, Richard	22	377
Porter, Anna Maria	22	388
Porter, Jane	22	391
	24	447
Potter, Beatrix	14	702
Pownall, Thomas	22	498
Pratt, Samuel Jackson	22	513
Praed, Winthrop Mackworth	22	501
Prestage, Edgar	22	558
Price, Julius Mendes	22	567
Prideaux, Humphrey	22	571
Prior, Matthew	22	601
Proctor, Adelaide Anne	22	630
Proctor, Bryan Waller	22	630
Protheo, Rowland Edmund	22	690
Pryce, Richard	22	723
Prynne, William	22	724
Puttenham, George	23	35
Pye, Henry James	23	87
"Q."	23	90
Quaritch, Bernard	23	58
Quarles, Francis	23	58
Quiller-Couch, Sir Arthur Thomas	23	90
Radcliffe, Ann Ward	23	115
Raleigh, Sir Walter	23	197
Ralston, William Ralston Shedden	23	199
Ramée Maria Louise (de la)	21	52
Rawnsley, Hardwicke Drummond	23	237
Raymond, Walter	23	240
Reade, William Winwood	23	247
Reade, Charles	10	383
	23	246
Reeves, Helen Mathers	23	298
Reid (Thomas), Mayne	23	330
Rogers, Samuel	23	629
Ricardo, David	13	320
	23	484
Rice, James	23	486
Richardson, Samuel	7	38
	23	494
Richards, Marcus Samuel Cam	23	508
Richardson, Samuel	23	494
Ridge, William Pett	23	511
Ritchie, Lady Anne Isabella Thackeray	23	538
Robbin, Albert Farthing	23	565
Roberts, Morley	23	569
Robinson, Frederick William	23	581
Robinson, Henry Crabb	13	316
	23	581
Rolle De Kampole, Richard	23	635
Roscoe, William	23	692
Rose, George	23	692
Ross, Janet Anne Gordon	23	704
Rossetti, Christina Georgina	10	382
	23	708
Rossetti, Dante Gabriel	10	382
	23	708
Rossetti, William Michael	23	709
Rothermere, Lord	13	215
Rouse, William Henry Denham	23	723
Routledge, George	23	728
Roundabout Papers, The	23	722
Rowlands, Samuel	23	732
Rowbotham, John Frederick	23	729
Roget, Peter Mark	23	631
Ruskin, John	10	372
	13	317
	13	377
	23	731
Russell, William Clark	23	787
Russell, George William Erskine	23	785
Rymer, Thomas	24	74
Sackville, Charles	24	89
Sackville, Thomas	24	89
Sansbury, George Edward Bateman	24	173
Saint Aubyn, Alan	24	122
Sala, George Augustus Henry	24	175
Salt, Henry Stephens	24	197
Sandys, George	24	259
Saunders, Thomas Bailey	24	320
Savage, Richard	24	322
Savile, George	24	328
Savile, Sir Henry	24	329
Saville, George	24	328
Scot, Reginald	24	427
Scott, Hugh Stowell	24	440
Scott, Walter	14	233
	20	473
Seaman, Owen	24	486
Sedley, Sir Charles	24	525
Seeley, Sir John Robert	13	321
	24	530
Selden, John	24	535
Selous, Capt. Frederick Courtney	24	545
Seward, Anna	24	625
Shadwell, Charles Lancelot	24	668
Shakespeare, William	13	648
	24	642
Shelley, Mary Wollstoncraft Godwin	24	687
Shelley, Percy Bysshe	24	688
Shenstone, William	24	696
Shirreff, Emily Anne Eliza	24	737
Shorthouse, Joseph Henry	24	754
Sidney, Philip	17	323
	24	787
Sims, George R	13	316
	25	29
Sinclair, May	25	51
Skelton, John	25	68
Skrine, John Huntley	25	78
Sladen, Douglas	25	80
Smart, Christopher	25	109
Smith, George Barnett	25	117
Smith, George Murray	25	117
Smith, Goldwin	25	119
Smith, Horatio	25	120
Smith, James	25	121
Smith, Joshua Toulmin	25	124
Smith, Sidney	25	127
Smith, William Robertson	25	129
Smollett, Tobias George	25	138
Somerville, William	25	252
Sonnenschein, William Swan	25	257
Southey, Caroline Ann Bowles	25	314
Southey, Robert	25	314
Spedding, James	25	379
Spencer, George John	25	389
Spencer, Herbert	13	317
	13	320
	25	390
Spenser, Edmund	10	379
	25	395
St. John, James Augustus	24	133
St. John, Sir Spencer	24	133
Stanley, Thomas	25	484
Stannard, Henrietta Eliza Vaughan Palmer	25	484
Staunton, Howard	25	538
Stead, Albert	25	539
Stead, William Thomas	25	539
Steele, Flora Annie Webster	25	607
Steele, Richard	10	509
	25	607
Steevens, George	25	609
Steevens, George Warrington	25	609
Step, Edward	25	616
Stephen, Leslie	10	510
	25	618
Sterne, Laurence	25	631
	27	78
Stevenson, Robert Louis	10	510
	13	379
	25	641
Steward, Sir William Jukes	25	642
Stoker, Bram (Abraham)	25	668
Strachey, John Saint Loe	25	707
Stretton, Hesba	25	733
Strutt, Joseph	25	742
Stubbes, Philip	25	749
Suckling, Sir John	6	136
	25	786
Surrey, Henry Howard	26	90
Surtees, Robert	26	91
Swift, Benjamin	21	390

England — cont'd	Vol.	Page
Swift, Jonathan	26	128
Swinburne, Algernon Charles	10	382
	26	136
Sylvester, Joshua	26	158
Symonds, E. M.	26	168
Symonds, John Addington	10	384
	26	168
Symons, Arthur	26	168
Tate, Nahum	26	283
Talfourd, Sir Thomas Noon	26	224
Taylor, Sir Henry	26	298
Taylor, Isaac	26	299
Taylor, Jane	26	300
Taylor, John	26	300
Taylor, Thomas	26	301
Taylor, Philip Meadows	26	301
Temple, Richard Carnac	26	407
Temple, Sir William	10	509
	17	323
	26	407
Tenniel, Sir John	14	702
	26	432
Tennyson-Turner, Charles	26	436
Tennyson, Alfred	10	382
	13	317
	13	318
	26	432
Tennyson, Frederick	26	436
Thackeray, William Makepeace	10	388
	13	317
	13	319
	14	702
	26	482
Thompson, Sir Edward Maunde	26	577
Thompson, Francis	26	577
Thomson, Hugh	14	702
Thring, Edward	26	596
Tickell, Thomas	26	608
Tirebuck, William Edwards	26	644
Toland, John	26	670
Tottel, Richard	26	716
Tonson, Jacob	26	689
Toynbee, Paget	26	737
Traill, Henry Duff	26	765
Trench, Herbert	27	39
Trevelyan, Sir George Otto	27	49
Trevena, John	27	50
Trevisa, John	27	51
Trimmer, Sarah	27	65
Trollope, Anthony	10	383
	27	84
Trollope, Frances Milton	27	85
Trollope, Thomas Adolphus	27	85
Trübner, Nicholas	27	102
Tucker, Charlotte Maria	27	128
Tucker, Josiah	27	129
Tuberville, George	27	169
Tupper, Martin Farquhar	27	168
Turner, Charles Tennyson	27	203
Tusser, Thomas	27	211
Tuttiett, Mary G.	27	212
Udall, Nicholas	27	251
Upcott, William	27	583
Uvedale, Nicholas	27	251
Vachell, Horace Annesley	27	635
Vaughn, Sir William	27	701
Vandam, Albert Dresden	27	680
Vaux, Thomas	27	706
Vere, Edward de	28	14
Vincent, Charles Edward Howard	28	95
Vizetelly, Edward Henry	28	157
Vizetelly, Ernest Alfred	28	158
Vizetelly, Henry Richard	28	158
Voynich, Ethel Lillian Boole	28	194
Vredenburg, Eric Walcott	28	194
Waddington, Samuel	28	205
Waldstein, Sir Charles	28	224
Walford, Lucy Bethia Colquhoun	28	226
Walker, William Sidney	28	231
Walker, Henry	13	314
Wallace, Sir Donald Mackenzie	28	236
Wallas, Graham	28	239
Waller, Edmund	6	136
	28	241
Walter, John	13	315
	28	249
Walton, Isaak	28	251
Walpole, Horace	17	323
	28	244
Warburton, William	28	696
Ward, Nathaniel	28	699
Ward, Mary Augusta Arnold	28	699
Ward, Thomas Humphry	28	700
Ward, Wilfrid Philip	28	700
Warden, Florence	15	604
Warren, John Byrne Leicester	28	708
Warren, Samuel	28	710
Warton, Joseph	28	768
Warton, Thomas	28	769
Watson, Henry Brereton Marriott	29	109
Watson, John	29	109
Watson, Thomas	29	110
Watson, Robert Spence	29	110
Watson, Sir William	29	111
Watts-Dunton, Theodore	29	114
Waugh, Arthur	29	114
Way, Arthur S.	29	120
Weatherly, Frederic Edward	29	135
Webster (Julia) Augusta Davies	29	151
Wells, Herbert George	29	186
Wells, Charles Jeremiah	29	185
Westall, William	29	220
Weyman, Stanley John	29	230
Whately, Richard	29	241
Wheatley, Henry Benjamin	29	246
Wheelton, Brook	25	80
Whitaker, Joseph	29	263
Whitehead, William	29	277
Whitehead, Charles	29	277
White, Percy	29	268
White, Henry Kirke	29	266
Whyte, Violet	25	484
Whyte-Melville, George John	29	288
Wyatt, Sir Thomas	29	580
Wiclif, John	10	374
	29	294
Wilde, Oscar	29	311
Wills, William Henry	29	352
Williams, Edward	29	339
Williams, Helen Maria	29	340
Williams, Isaac	29	340
Williamson, Charles Norris	29	347
Williamson, George Charles	29	347
Wither, George	29	432
Withers, George	29	432
Winter, John Strange	25	484
Wordsworth, Dorothy	29	516
Wordsworth, William	10	382
	29	516
Wolcott, John	29	436
Wolcot, John	29	436
Wotton, William	29	563
Wotton, Sir Henry	29	563
Wood, Anthony	29	471
Wood, Ellen Price	29	472
Wood, Mrs. Henry	29	472
Woolner, Thomas	29	507
Wotton, Sir Henry	17	323
	29	563
Wrattislaw, Arthur Henry	29	565
Wraxall, Sir Nathaniel William	29	565
Wright, Joseph	29	569
Wright, Thomas	29	570
	29	571
Wright, William Aldis	29	571
Yates, Edmund Hodgson	29	616
Yonge, Charlotte Mary	29	640
Yorke, Curtis	29	644
Young, Edward	29	650
Yule, Sir Henry	29	675
Zangwill, Israel	29	686
Zangwill, Louis	29	687

Drama

Alchemist, The	1	342
All Is True	1	407
Antony and Cleopatra	2	46
As You Like It	2	374
Atalanta in Calydon	2	487
Candida	5	494
Colleen Bawn, The	7	253
Comedy of Errors, The	7	354
Coriolanus	7	695
Coventry Plays, The	8	131
Cymbeline	8	364
Death's Jest Book	8	542
Drama	9	307
	9	310
Duchess of Malfi, The	9	377
Edward II	9	708
Empedocles On Etna	10	300
Every Man In His Humour	10	603
Every Man Out of His Humour	10	603
Faithful Shepherdess, The	10	724
	19	724
Falstaff, Sir John	11	1
Fiñellen	11	401
Florizel	11	380
Fox, The	28	174
Hamlet	13	662
Heroic Daughter, The	29	586
Iphigenia In Tauris	15	304
Jew of Malta, The	16	48
Julius Cæsar	16	244
Justice	16	263
Kemble plays	16	348
King Henry the Fourth	16	435
King Henry the Fifth	16	435
King Henry the Sixth	16	436
King Henry VIII	16	437
King John	16	437
King Lear	16	438
King Richard the Second	16	439
King Richard the Third	16	439
Lady of Lyons, The	16	645
Lady Windermere's Fan	16	645
Love Lies a-Bleeding	21	786
Love's Labour's Lost	17	696
Macbeth	18	15
Man and Super-Man	18	193

England — cont'd	Vol.	Page
Manfred	18	209
Measure For Measure	18	480
Merry Wives of Windsor	18	682
Michael and His Lost Angel	19	12
Midsummer Night's Dream, A	19	45
Much Ado About Nothing	19	545
Murray's Translations of Euripides	19	612
New Way to Pay Old Debts, A	20	187
Ophelia	20	706
Our American Cousin	21	52
Paolo and Francesca	21	251
Peter Pan	21	661
Petruchio	21	696
Philaster	21	736
Playboy of the Western World, The	22	242
Plot Discovered, A	28	5
Prometheus Unbound: a lyrical drama	22	653
	24	689
Ralph Roister Doister	23	198
Riders to the Sea	23	510
Rivals, The	23	545
Romeo and Juliet	23	673
Samson Agonistes	24	227
School for Scandal, The	24	393
Shaw - interpretative studies	24	694
She Stoops to Conquer	24	669
Shelley's Greatest Achievement	24	689
Shylock	24	762
Silent Woman, The	10	417
Spanish Friar, The	9	363
Strife	25	734
Taming of the Shrew, The	26	234
Tempest, The	26	406
Thunderbolt, The	26	600
Timon of Athens	26	634
Titus Andronicus	26	654
Troilus and Cressida	27	82
Twelfth Night	27	218
Two Gentlemen of Verona, The	27	229
Two Noble Kinsmen, The	27	229
Venice Preserved	28	5
Viola	28	105
Virgin Martyr, The	28	116
Volpone	28	174
Way of the World, The	29	120
Winters Tale, The	29	403
Ximena	29	598
Yorick	29	641

Biographies

Beddoes, Thomas Lovell	3	412
Bickerstaffe, Isaac	3	680
	15	343
Boucicault, Dion	4	322
	10	485
	15	345
Brome, Richard	4	575
Brooke, Henry	4	590
Bulwer, Edward George	5	20
	10	385
Byron, H. J.	5	101
	10	386
Carton, Richard Claude	5	685
Cherry, Andrew	15	344
Coffey, Charles	15	343
Colum, Padraic McCormac	15	338
Congreve, William	7	518
Connell, F. Norreys	15	339
Cumberland, Richard	8	297
Davenant, Sir William	8	496
Davenport, Robert	8	498
Day, John	8	518
Decker, Thomas	8	608
Dennis, John	8	686
Dodsley, Robert	9	222
Dryden, John	9	362
D'Urfey, Thomas	9	424
Ervine, St. John Greer	15	339
Esmond, Henry V	10	500
Etherege, Sir George	10	536
Fagan, James Bernard	10	710
Farquhar, George	11	44
	15	343
Ford, John	11	465
Gilbert, Sir William Schwenck	12	651
Gilbert, W. S.	10	386
	12	650
Gregory, Lady Isabelle Augusta	13	457
	15	338
Grundy, Sydney	13	504
Heywood, John	14	163
Heywood, Thomas	14	163
Houghton, William Stanley	14	443
Jerrold, Douglas William	16	27
Jones, Henry Arthur	10	386
	16	197
Jonson, Ben or Benjamin	9	308
	16	205
Kelly, Hugh	16	344
Kenney, James	16	358
Knowles, James Sheridan	16	492
Kyd, Thomas	16	563
Langbaine, Gerard	16	717
Lansdowne, George Granville, Lord	16	735
Lee, Nathaniel	17	220
Lemon, Mark	17	281
Lillo, George	17	437
Lodge, Thomas	17	500
Macklin, Charles	15	343
MacLaughlin, Charles	15	343
Marlowe, Christopher	10	376
	18	303
Maturin, Charles Robert	18	446
Maud	18	447
May, Thomas	18	461
Mayne, Rutherford	15	339
Middleton, Thomas	10	376
	19	43
Moore, Edward	19	429
Moore, Frank Frankfort	19	429
Morton, John Madison	19	490
Murphy, Arthur	15	344
	19	607
Murray, Thomas C.	15	339
Nash, Thomas	19	712
Norton, Thomas	20	435
Norval, Young	20	436
O'Keeffe, John	15	344
	20	634
O'Riordan, Conal Holmes O'Connell	15	339
Otway, Thomas	21	50
Oxenford, John	21	71
Parker, Louis Napoleon	21	329
Peele, George	21	469
Philips, Francis Charles	21	760
Pinero, Arthur Wing	10	386
	22	100
	26	600
Pole, William	22	300
Poole, John	22	354
Ravenscroft, Edward	23	234
Reade, Charles	10	385
	23	246
Robertson, Thomas William	10	386
	23	573
Robinson, S. Lennox	15	339
Ropes, Arthur Reed	23	687
Rowe, Nicholas	23	729
Shadwell, Thomas	24	638
Shakespeare, William	24	642
Shaw, George Bernard	10	386
	24	664
Sheridan, Richard Brinsley	15	344
	24	702
Shirley, James	24	737
Sims, George Robert	25	29
Southern, Thomas	15	343
	25	314
Still, John	25	648
Synge, John Millington	15	338
	26	174
Taylor, Tom	10	385
	26	302
Theobald, Lewis	26	507
Todhunter, John	26	668
Vanbrugh, Sir John	27	676
Webster, John	29	150
Wilde, Oscar	10	386
	29	311
Wills, William Gorman	29	352
Wycherley, William	29	580

IRELAND

Subjects

Bardic Schools	12	222
Book of the Dun Cow, The	6	181
Book of Kells	14	700
Cattle Spoil of Cooley, The	15	333
Celtic Literatures	6	180
Celtic Renaissance	6	186
	15	332
Conn of the Hundred Battles	12	221
Cualnge Cattle Raid, The	26	217
Cuchulain	12	221
Deirdre	15	333
Heroic Cycle	12	221
Irish Literature	6	180
Irish Literature in English	15	342
Irish Literary Revival	12	219
	14	199
	15	332
Irish Literary Society	15	342
Irish Melodies	15	348
Irish Texts Society	15	360
Kildare, Find of	15	359
Leabhar Breac	6	181
Leabhar na h Uidhre	6	181
Moore's "Irish Melodies"	15	332
Mythological Cycle, The	12	221
Ossian	21	23
Oisin	21	23
Ossianic Cycles of Romance	15	332
Periodical Literature, Irish	21	594
Red Branch Cycle	12	221
	15	332
Society for the Preservation of the Irish Language	6	187
	15	332
Speckled Book	6	181
Táin Bó Cúalnge	26	217

Ireland — cont'd	Vol.	Page
Biographies		
Allingham, William	1	422
	15	347
Amory, Thomas	15	343
Anster, John Martin	15	346
Archdeacon, Matthew	15	345
Armstrong, Edmund John	15	347
Armstrong, George Francis Savage	15	347
Banim, John	3	146
	15	345
Banim, Michael	3	146
	15	345
Barlow, Jean	15	340
Bax, Arnold	15	340
Bell, Robert	3	477
Bennett, Henry	15	344
Berkeley, George	15	343
Birmingham, George A.	13	679
	15	346
Boyd, Thomas	15	336
Boyle, Robert	15	342
Boyle, Roger	15	343
Boyle, William	15	345
Brady, Nicholas	15	343
Brooke, Stopford Augustus	4	591
	15	333
Brooke, Henry	15	343
Brooke, Charlotte	15	344
Buckley, William	15	340
Bullock, Shan F.	5	17
	15	340
Bury, John B.	5	70
Butler, Mary Lambert	15	340
Byrne, William A.	15	336
Callanan, Jeremiah Joseph	15	332
	15	346
Carbery, Ethna	15	336
Cary, Henry Francis	15	346
Carleton, William	5	615
	15	345
Casey, John Keegan	15	347
Code, Henry Brereton	15	344
Colum, Padraic	15	336
Connolly, Luke Aylmer	15	344
Crawford, Louisa	15	344
Croker, John Wilson	8	220
Crommelin, May de la Cherois	8	222
Curran, John Philpot	15	344
Darley, George	15	346
Davitt, Michael	8	514
	15	342
Davis, Thomas Osborne	15	347
Dawson, Arthur	15	344
Denham, John	15	342
De Vere, Sir Aubrey Hunt	9	36
De Vere, Aubrey Thomas	9	36
	15	346
De Vere, Stephen	15	344
	15	346
Dermody, Thomas	15	346
Dillon, Wentworth	15	342
Dillon, John Blake	15	347
Dobeny, Michael	15	344
Dowden, Edward	15	347
Doyle, Lynn	15	340
Drennan, William	15	344
Duffet, Thomas	15	344
Duffy, Charles Gavan	9	387
	15	333
	15	347
	15	348
Dunraven, Windham Thomas Wyndham-Quin	9	408
Edgeworth, Maria	9	583
	15	345
Erigena, John Scotus	15	357
Fahy, Francis Arthur	15	335
	15	345
Farley, James Lewis	11	21
Farrell, Joseph	15	348
Ferguson, Sir Samuel	11	124
	15	332
	15	347
Flood, Henry	15	344
Francis, Sir Philip	15	344
Friar Clyn	15	342
Figgis, Darrell	15	342
Fitz Bernard, Michael	15	342
Fitzgerald, Percy Hetherington	11	301
Fitzpatrick, William John	11	302
	15	348
Furlong, Thomas	15	346
Furlong, Alice	15	335
Gilbert, John Thomas	15	348
Goldsmith, Oliver	15	344
Good, Father William	15	342
Gore-Booth, Eva	13	64
	15	336
Grattan, Henry	13	161
	15	344
Graves, Perceval	15	335
Graves, Alfred Perceval	15	345
Gregory, Isabelle Augusta	13	457
Griffin, Gerald	13	470
	15	345
Gwynn, Stephen Lucius	15	341
Hamilton, Elizabeth	15	345
Hannay, James Owen	13	679
	15	346
Haverty, Martin	15	348
Hector, Mrs. Annie French	14	62
Hinkson, Henry A.	15	340
Hinkson, Katharine T.	14	199
	15	334
Hopper, Nora	15	336
Hull, Eleanor	15	341
Hungerford, Margaret Hamilton Wolfe Argles	14	509
Hutcheson, Francis	15	343
Hyde, Douglas	14	537
Ingram, John Kells	15	345
Irwin, Thomas Caulfield	15	347
Johnson, Lionel	15	335
Johnston, Anna Isabel	15	336
Johnstone, Charles	15	344
Joyce, James	15	340
Joyce, Patrick Weston	15	333
	15	348
Joyce, Robert Dwyer	15	333
	16	226
Kavanagh, Julia	16	322
Kavanagh, Rose	15	334
Keary, Annie	16	328
Kelly, Hugh	15	343
Kenealy, Edward Vaughan Hyde	16	352
Kennedy, John Pitt	16	356
Kennedy, William	16	357
Keohler, Thomas	15	336
Keon, Myles Gerald	15	346
Kettle, Thomas Michael	15	341
Kickham, Charles Joseph	15	346
	16	399
King, Edward	16	429
Lalor, James Fintan	15	348
Lanigan, John	15	348
Larminie, William	15	335
	16	750
Lawless, Emily	15	340
	17	143
Leamy, Edmund	15	340
Le Blond, Elizabeth Alice Frances	17	161
Lecky, William Edward Hartpole	15	348
Ledwidge, Francis	15	337
Lefanu, Joseph Sheridan	15	345
	17	164
Lepper, John Heron	15	340
Leslie, Charles	15	343
Lever, Charles James	15	345
	17	327
Loftie, William John	17	593
Lover, Samuel	15	344
	17	696
Lynch, Arthur	17	776
Lysaght, Edward	15	344
McBurney, William B.	15	345
McCall, Patrick Joseph	15	335
McCann, Michael Joseph	15	344
McCarthy, Justin	15	346
	18	21
McCarthy, Justin Huntly	15	346
	18	21
McGee, Thomas D'Arcy	15	332
	15	348
MacGill, Patrick	15	340
McNally, Leonard	15	344
MacManus, Seumas	15	340
	18	82
Madden, Richard Robert	15	348
Magee, W. K.	15	341
Magian, William	15	348
	18	122
Mahony, Francis Sylvester	15	344
	15	348
	18	138
Maildun, Maelduin, or Madune	18	139
Malone, Edmund	18	169
Mangan, James Clarence	15	332
	15	347
Martin, Violet	15	340
Martin, Robert Jasper	15	345
Martyn, Edward	15	337
Martyn, Edward Joseph	15	338
Maturin, Charles Robert	15	345
Maxwell, William Hamilton	15	345
Meagher, Thomas Francis	18	476
Meehan, Charles Patrick	15	348
Michael of Kildare	15	342
Milligan, Alice L.	15	336
Milligan, Seaton F.	15	336
Milliken, Richard Alfred	15	344
Mills, William Gorman	15	344
Mitchell, Susan L.	15	336
Mitchel, John	15	342
	15	348
	19	264
Molyneux, William	15	343
Molloy, James Lynam	15	344
Molloy, Joseph Fitzgerald	15	348
	19	327
Moore, George	15	340
	19	430
Moore, Thomas	15	346
	19	433
Morgan, Sydney O.	15	345
	19	454
Napier, William	15	348
	19	694
O'Brien, Richard Barry	15	348
	20	545
O'Callaghan, John Cornelius	15	348
O'Connell, John	15	344
O'Curry, Eugene	20	575
O'Donovan, John	20	586
O'Flaherty, Charles	15	344
O'Grady, Standish	15	333
	20	608

Ireland — cont'd	Vol.	Page
O'Hanlon, John	15	348
O'Leary, Ellen	15	334
O'Leary, John	15	334
O'Leary, Joseph	15	344
O'Leary, Peter	15	337
O'Neill, Moira	15	336
O'Riordan, Michael	15	341
O'Rourke, Edmund	15	344
O'Sullivan, Seumas	15	336
Ogle, George	15	344
Orr, James	15	344
Parnell, Thomas	15	343
	21	341
Petrie, George	15	348
Plunkett, Edward John Moreton Drax	15	339
Porter, Thomas Hamblin	15	344
Power, Lionel	15	342
Prendergast, John P.	15	348
Purdon, K. F.	15	340
Quinton, Thomas	15	344
Reid, Thomas Mayne	15	345
Reynolds, George Nugent	15	344
Roberts, George	15	336
Roche, Regina Maria	15	345
Rolleston, Thomas William Hasen	15	334
	28	636
Rooney, William	15	336
Russell, George W.	15	335
	23	785
Ryan, Frederick	15	341
Ryan, William Patrick	15	340
Savage, Marmion Wilmo	15	346
Scanlan, Michael	15	345
Sedulius	15	357
Sheehan, Patrick A.	15	341
	15	346
	24	672
Shell, Richard	15	344
Shorter, Dora Sigerson	15	335
Sigerson, George	15	333
	15	334
	24	797
Skrine, Nesta Higginson	15	336
Somerville, E. Œ.	15	340
Speranza, Lady	29	311
Stephens, James	15	340
	25	620
Stokes, Whitly	25	670
Sullivan, Alexander Martin	15	348
Sullivan, Timothy D.	15	345
Swift, Jonathan	15	343
Synge, Francis May	15	348
Tate, Nahum	15	343
Taylor, William Cooke	15	348
Thurston, Katharine	15	346
Tighe, James	15	344
Tighe, Mary	15	344
	26	623
Todd, James Henthorn	15	348
Toland, John	15	343
Toleken, John	15	344
Trench, Richard Chenevix	27	39
Trench, William Stewart	15	346
Trainor, J. P.	15	345
Tynan, Katherine	14	199
	15	334
Tyrrell, Robert Yelverton	27	249
Usher, James	15	342
	27	607
Wade, John Augustine	15	344
Warburton, Bartholomew Elliott George	28	696
Ward, Sir Adolphus William	28	696
Waller, John Francis	15	347

Ireland — cont'd	Vol.	Page
Walsh, Edward	15	332
Wellesley, Garret	15	344
Whitty, Edward Michael	15	345
Whitty, Michael James	15	345
Whitmore, W. J. Brennan	15	342
Wolfe, Charles	15	344
Wood, John	15	345
Wynne, Frances	15	336
Wilde, Jane Francesca Elgee	29	311
Wills, James	15	348
Wolfe, Charles	29	440
Yeats, William Butler	29	622
Young, Ella	15	336

SCOTLAND

Subjects

	Vol.	Page
Abbot, The	1	16
Bannatyne Club	3	210
Constable, Archibald and His Literary Correspondents	7	551
Cotter's Saturday Night, The	8	58
Cumnor Hall	8	301
David Balfour; Being Memoirs of His Adventures at Home and Abroad	8	502
Gaelic Bards	24	447
Guy Mannering	24	443
Kailyard School	16	278
Literature, Scottish	6	187
Periodical Literature	21	594
Quentin Durward	23	83
Rob Roy	23	564
Scottish Gaelic Literature	6	182
Scotland Language and Literature	24	435
See also under English Literature—Subjects.		

Biographies

Scotland — cont'd	Vol.	Page
Aird, Thomas	1	288
Alexander, Sir William	1	371
Arbuthnot, John	2	146
Aytoun, Sir Robert	2	686
Aytoun, William Edmondstoune	2	686
Baillie, Lady Grizel	3	52
Baillie, Joanna	3	52
Baliol, Martha Bethune	3	81
Ballantine, James	3	97
	3	98
Ballenden, John	3	98
Ballentyne, John	3	98
Barbour, John	3	238
	24	435
Barclay, John	3	242
Barnard, Lady Anne	3	263
Barr, Robert	3	273
Bayne, Peter	3	366
Bell, Henry Glassford	3	474
Bell, John Joy	3	476
Beverley, Constance de	3	602
Black, William	4	31
Blackie, John Stuart	4	41
Brown, John	4	609
Bruce, Michael	4	625
Brunton, Mary	4	639
Buchan, John	4	656
Burns, Robert	5	59
	24	438
Bute, John Patrick Crichton Stuart	5	77
Calderwood, David	5	188
Carlyle, Jane Baillie Welsh	5	624
Carlyle, John Aitken	5	624

Scotland — cont'd	Vol.	Page
Chambers, Robert	6	268
Chambers, William	6	264
Cleishbotham, Jedediah	7	82
Cockburn, Alicia or Alison Rutherford	7	186
Constable, Archibald	7	550
Cunningham, Allan	8	303
Cunningham - Graham, Robert Bontine	8	306
Crockett, Samuel Rutherford	8	217
Dalrymple, Alexander	8	421
Davidson, John	8	504
Davidson, Thomas	8	505
Deans, Jeanie	8	538
Dempster, Thomas	8	673
Douglas, Gawin	9	278
	24	436
Dunbar, William	9	400
	24	436
Drummond, Henry	9	353
Drummond, William	9	353
Elliot, Sir Gilbert	10	254
Erskine, David Stewart	10	485
Fergusson, Robert	11	124
Ferrier, Susan Edmonstone	11	141
Fingal	11	221
Galt, John	12	252
Hastings, James	13	751
Hatfield, James Taft	13	754
Henryson, Robert	24	436
Hogg, James	14	312
Home, Henry	14	332
Jeffrey, Francis	16	7
Kames, Lord	14	332
Keddie, Henrietta	16	332
Kennedy, Archibald R. S.	16	355
Kennedy, Grace	16	355
Laing, Malcolm	16	654
Laing, Samuel	16	654
Lauder, Sir Thomas Dick	17	99
Lauder, William	17	100
Lockhart, John Gibson	17	562
	24	446
Lindsay, Sir David	17	457
	24	437
Macaulay, James	18	10
Macdonald, George	18	36
MacGregor, John	18	50
Mackenzie, Henry	18	68
Mackintosh, Sir James	18	74
Macleod, Fiona	18	79
Macpherson, James	18	89
Maitland, Sir Richard	18	153
Masson, David	18	416
Maxwell, Sir Herbert Eustace	18	460
Mickle, William Julius	19	32
Mill, Hugh Robert	19	109
Miller, Hugh	19	119
Miller, William	19	122
Montgomery, Alexander	24	437
Motherwell, William	19	513
Munro, Neil	19	595
Murray, James Augustus Henry	19	610
Nairne, Carolina Oliphant	19	684
Nichol, John	20	311
Nisbet, Hume	20	369
North, Christopher	20	361
Nyntoun, Andrew	20	582
Pringle, Thomas	22	588
Pollock, Robert	22	324
Ramsay, Allan	23	204
	24	437
Ramsay, Andrew Michael	23	205
Rhymer, Thomas	23	480

Scotland — cont'd	Vol.	Page
Ruddiman, Thomas	23	752
Scot, Michael	24	427
Scot, Reynold	24	427
Scott, Alexander	24	437
Scott, Michael	24	427
Scott, Sir Walter	23	564
	24	441
Scott, William Bell	24	445
Sempill, Robert	24	556
Shairp, John Campbell	24	641
Sharp, William	24	661
Sinclair, Sir John	25	31
Skinner, John	25	76
Sterling, John	25	629
Steuart, John Alexander	25	634
Stevenson, Robert Louis	25	640
Stirling, William Alexander	25	653
Smellie, William	25	109
Smiles, Samuel	25	110
Smith, Alexander	25	112
Thomson, James	26	583
Thomas the Rhymer	24	435
Tytler, Sarah	16	232
Tytler, Patrick Fraser	27	248
Vedder, David	27	714
Walker, Hugh	28	228
Wardlaw, Lady Elizabeth	28	701
Wilson, John	29	361

AUSTRALIA

Subjects

	Vol.	Page
Ashtaroth	2	595
At Dawn and Dusk	2	596
Australian Poetry, First Fruits of	2	595
Beautiful White Devil	2	596
Bush ballads	2	595
By Reef and Palm	2	596
Child Life in the Southern Seas	2	596
Convict Once	2	595
Daughter of the South	2	596
Doctor Nikola	2	596
For the Term of his Natural Life	2	596
Griff	2	596
Leaves from an Australian Forest	2	595
Literature, Australian	2	594
Mutineer, The	2	596
'Neath Austral Skies	2	596
Ranolf and Amohia	2	595
Rhymes from the Mines	2	596
Robbery under Arms	2	596
Sea-Spray and Smoke-Drift	2	595
Songs and Poems	2	595
Songs from the Mountains	2	595
Songs without Music	2	595
Songs of the South	2	596
Sonnets	2	596
Steele Rudd	2	596
Three Miss Kings	2	597
We of the Never Never	2	597
While the Billy Boils	2	596

Biographies

Australia — cont'd	Vol.	Page
Adams, Arthur H	1	118
Barry, John Arthur	3	285
Bedford, Randolph	3	414
Boldrewood Rolf	2	596
	4	616
Boothy, Guy	2	596
Brady, Edwin J	4	390
Brown Charles Alexander	2	596
Browne, Thomas Alexander	4	616
Cambridge, Ada	2	597
	5	248
Clark, Marcus	7	43
Clarke, Marcus	2	596
Cross, Mrs. G. F	2	597
	5	248
Curlewis, Mrs. H. R	8	309
Daley, Victor	2	595
Davis, Arthur Hoey	2	596
	8	507
Domett, Alfred	2	595
Dyson, Edward	9	470
Evans, George Essex	10	591
Farjeon, L. B	2	596
Field, Barron	2	595
Gordon, Adam Lindsey	2	595
	13	62
Gunn, Æneas James	13	550
Gunn, Mrs. Æneas	2	597
	13	550
Hales, Alfred Arthur	13	635
Harper, Charles	2	595
Houlding, John Richard	14	443
Kendall, Henry Clarence	2	595
	16	351
Kingsley, Henry	2	596
Knight, John James	16	482
Lang, J. D	2	595
Lawson, Henry	2	596
Lawson, Henry Archibald	17	154
McCrea, Dorothy Frances	18	32
McCrea, George Gordon	2	595
	18	32
MacKay, Jessie	18	64
Mack, Louise	2	596
Meredith, Louisa Anne Twamly	18	671
Michael, Lionel	2	595
O'Dowd, Bernard Patrick	20	587
Ogilvie, William Henry	20	607
O'Hara, John Bernard	20	608
Parkes, Henry	2	595
Paterson, Andrew Barton	21	389
Praed, Mrs. Campbell	2	597
Praed, Rosa Caroline Murray-Prior	22	501
Pratt, Ambrose	22	511
Spence, Catharine Helen	25	389
Stephens, James Brunton	2	595
Stephens, James Burton	25	620
Stevens, Bertram	25	635
Tregear, Edward	27	36
Tucker, Thomas George	27	129
Turner, Ethel	8	309
Walch, Garnet	28	219
Wentworth, W. C	2	595
Wise, Bernhard Ringrose	29	426

CANADA

Subjects

	Vol.	Page
Biography in Canada	5	385
Biography in French Canada	5	386
Canada, Literature of	5	383
Canadian Renaissance	5	386
Canadian writers	5	384
English-Canadian verse	5	386
French-Canadian Books of Travel	5	386
French-Canadian fiction	5	387
Literature, Canadian	5	383
Literature, French-Canadian	23	74
Notable Historical Works in Canadian-French	5	385
Periodical literature	21	592
Travel, Canadian literature on	5	386
War of 1812, literature on	5	385

Biographies

Canada — cont'd	Vol.	Page
Adam, Graeme Mercer	1	115
Angers, Felicité	1	682
Barr, James	3	273
Begg, Alexander	3	443
Bengough, John Wilson	3	514
Bibaud, Michel	3	612
Bourassa, Napoléon	4	345
Bourinot, Sir John George	4	351
Burpee, Lawrence Johnston	5	63
Cameron, George Frederick	5	263
Campbell, William Wilfred	5	281
Carman, Bliss	5	628
Casgrain, Henri Raymond	5	701
Casgrain, Philippe Baby	5	701
Chapais, Joseph A. T	6	294
Chapman, William	6	298
Christie, Anne	6	621
Conant, Thomas	7	457
Connor, Ralph	13	63
Cotes, Sara Jeannette Duncan	8	57
Cremazie, Octave	8	178
David, Laurent Olivier	8	501
Dawson, Samuel Edward	8	517
De Mille, James	8	638
Dent, John Charles	5	384
	8	687
Dionne, Narcisse Eutrope	9	135
Dougall, Lily	9	276
Doughty, Arthur G	9	276
Drummond, William Henry	5	387
	9	354
Fabre, Hector	10	694
Ferland, Joseph Auge-Albert	11	125
Fiset, Louis Joseph Cyprien	11	265
Fitzgibbon, Mary Agnes	11	801
Fraser, Alexander	12	21
Fraser, William Alexander	12	22
Frechette, Louis Honoré	5	387
	12	30
Gagnon, Charles Alphonse Nathanaël	12	226
Gaspé, Philip Aubert de	12	331
Gordon, Charles William	13	63
Grant, George Monro	13	134
Haliburton, Thomas Chandler	5	384
	13	636
Hannay, James	13	679
Heavysege, Charles	5	386
	14	55
Johnson, Emily Pauline	16	170
Kingsford, William	5	385
	16	446
Kirby, William	16	455
Knowles, Robert Edward	16	493
Laut, Agnes C	17	113
Lucas, Sir C. P	5	385

Canada — cont'd	Vol.	Page
Lampman, Archibald	16	683
Leacock, Stephen Butler	17	170
Legendre, Napoléon	17	241
Lemay, Léon Pamphill	17	278
Le Moine, Sir James MacPherson	17	166
Leprohon, Rosanna Eleanor Mullins	17	310
Lozeau, Albert	17	710
MacColl, Evan	18	26
McCrae, John David	18	31
Machar, Agnes	18	51
McIlwraith, Jean Newton	18	62
McLachlan, Alexander	18	74
Maclean, John	18	77
Mair, Charles	18	152
Marmette, Joseph	18	304
Marchand, Félix Gabriel	18	272
Marquis, Thomas Guthrie	18	311
Oxley, James Macdonald	21	78
Parker, Sir Gilbert	5	387
	21	327
Parkin, George Robert	21	332
Quesnel, Joseph	23	84
Richardson, John	23	494
Roberts, Charles George Douglas	5	388
	23	568
Roy, Joseph Edward	23	734
"Sam Slick"	13	637
Sadler, Anna Teresa	24	100
Sadlier, Mary Anne (Madden)	24	101
Sangster, Charles	24	261
Scott, Duncan Campbell	24	439
Service, Robert	5	387
Spence, Francis Stephens	25	389
Stewart, George	25	644
Tanguay, Cyprien	26	242
Todd, Alpheus	26	666
Traill, Catherine Parr Strickland	26	765
Weaver, Emily Poynton	29	135
Wetherald, Agnes Ethelwyn	20	228

FRANCE

Subjects

France — cont'd	Vol.	Page
Around the World in Eighty Days	2	324
Arthurian Romances	23	647
Aslanga's Knight	2	400
Astrée	21	376
Athos	2	500
Auberge Rouge, L'	2	529
Aucassin and Nicolette	2	533
Ballade	3	97
Belles-Lettres	3	482
Biographies of the Troubadours	22	702
Caractères, Les	6	302
Carmen	5	629
Causeries du Lundi	6	132
Cent nouvelles Nouvelles	6	199
Chansons de Geste	23	646
	23	647
Chason de Roland	6	291
	11	651
Characters	6	302
Charlemagne Romances	23	647
Charles XII, the History of	6	325
Chouans, The	6	594
Cinq-Mars	6	687
Classical Cycles	23	647
Colomba	7	276
Comédie Humaine, La	7	354
Confessions	23	725
Confessions, Les	7	495
Contes Bleus	7	584
Contes de Fées	7	584
Conscrit de 1813, Histoire d'un	7	545
Count of Monte Cristo, The	8	101
Degeneration	8	596
Delphine	8	628
Didactic Poetry, French	11	652
Downfall, The	9	288
Elle et Lui	10	251
Emile	10	294
Epic Poetry, French	11	651
Esprits Forts	10	505
Essays of Montaigne	10	509
Eugénie Grandet	10	571
Fabliaux	10	693
Félibrige	11	100
Félibrige Writers	11	101
Flamença	22	702
French Literature	11	651
Froissart's Chronicles	12	120
Gargantua and Pantagruel	12	291
Genius of Christianity, The	12	397
Gentil Bernard	3	569
Germinie Lacérteux	12	622
Géronte	12	623
Geste des Lorrains	11	651
Gil Blas	12	647
Golden Period of French Literature	24	614
Heptameron, The	14	110
House of Claës, The	1	404
Jardin deys musos Provensalos	22	702
Jongleurs	23	647
Journey Around My Room	16	223
L'Abbé Constantin	16	565
La Chartreuse De Parme	16	568
La Confession D'un Enfant Du Siècle	16	569
La Débâcle	9	288
	16	570
La Fontaine's Fables	16	574
La Mare Au Diable	16	576
L'Ami Fritz	16	566
Land of Cockaigne, The	21	95
La Nouvelle Heloise	16	578
Le Crime De Sylvestre Bonnard	17	164
Le Don-Don Internal	22	702
Le Gendre de Monsieur Poirier	17	165
Légende des Siécles	17	241
Le Marquis de Villemer	24	250
Le Pêcheur, D'Islande	17	167
Le Rouge et le Noir	17	168
Les Châtiments	17	313
Les Lettres Persanes	17	314
Letters, The	17	320
Lion of Flanders, The	17	469
Literature, French	11	651
Lyric Poetry	11	651
Magic Skin, The	18	117
Manon Lescaut	18	232
	22	566
Meditations of Lamartine	18	588
Memoirs of Carlo Goldoni	18	613
Misérables, Les	19	225
Monday Chats	6	132
Montaigne's Essays	19	382
Nabob, The	19	677
Nana	19	687
Napoleon Le Petit	19	702
Naturalism	11	662
Neo Realists	11	668
Ninety-Three	20	361
Notre Dame De Paris	20	459
Nuit de Mai	20	484
Oriana	20	793
Origins of Contemporary France, The	20	810
Outer Edge of Society, The	8	637
Pamela	21	220
Pantagruel	23	105
Parnassians, The	11	661
Paul and Virginia	24	166
Paul et Virginie	21	414
Père Goriot	21	573
Periodical Literature	21	593
Phèdre	11	659
Physiology of Taste, or Physiologie du Goût	22	50
Provençal Literary Movement	22	700
Provençal Literature	22	699
Comedy	22	702
Middle Period	22	701
Provençal Poets	22	700
Puss in Boots	23	32
Quatre-Vingt-Treize	20	361
	23	69
Realism in France	23	257
Recollections of Childhood and Youth	23	271
Roland Song, The	23	633
Romain-Rolland	11	664
Roman du Renart	11	652
Roman de la Rose, Le	23	645
Romantic Historians	11	661
Romantic Novel, The	11	660
Romanticism in France	23	657
Romantic Poetry	11	659
Rousseau's Confessions	23	726
Salammbô	24	178
Sapho	24	290
Satire Ménippée	24	312
Satirical Poetry, French	11	652
Scenes of Bohemian Life, The	24	359
Spirit of Laws, The	25	419
Symbolists	26	162
Symbolism	11	665
Tartarin	26	276
Télémaque	26	361
Three Musketeers, The	26	593
Tirades	23	647
Toilers of the Sea	26	669
Trouvère	27	97
Turkish Spy, The	27	202
Twenty Thousand Leagues Under the Sea	27	226
Vaux-de-vire	3	317
Villiers de l'Isle Adam	11	665
Virgil with the Plane	3	704
Voyage autour de ma Chambre	16	223
Wandering Jew, The	28	253

Biographies

About, Edmond François	1	46
	11	662
Achard, Louis Amédée Eugène	1	86
Ackermann, Louise V. C.	1	93
Adam De La Halle	1	117
Adam De La Hale	1	117
Adam, Juliette	1	115
Adam, Maître	3	704

France — cont'd	Vol.	Page
Adam, Paul	1	116
	11	663
Agoult, Marie Catherine Sophie de Flavigny, Comtesse d'	1	239
Aicard, Jean François Victor	1	271
Aimard, Gustave	1	274
Aissé, Mademoiselle	1	291
Amyot, Jacques	1	598
	11	653
Ancelot, Jacques Arsène François Polycarpe	1	651
Andrieux, François Guillaume Jean Stanislas	1	676
Angoulême, Marguerite d'	11	658
Arène, Paul Auguste	2	191
Argenson, René Louis de Voyer	2	195
Assier, Adolphe d'	2	422
Assollant, Alfred	2	426
Assommoir, L'	2	426
Arouet, François Marie	11	656
Aubanel, Theodore	2	529
Aubert, Jean Louis	2	530
Aubigne, Theodore Agrippa	2	530
Audouard, Olympe	2	536
Aurévilly, Barbey d'	11	661
Autran, Joseph	2	668
Bachelin, Oliver	3	317
Baif, Jean Antoine de	3	49
Baillet, Adrien	3	52
Baird, Henry Martyn	3	56
Balzac, Honoré de	3	124
	11	661
	23	257
Balzac, Jean Louis Guez de	3	128
	11	654
Banville, Théodore Faullain de	3	217
	11	661
Baour-Lormian, Louis Pierre Marie François	3	219
Barbey D'Aurevilly, Jules	3	237
Barbier, Antoine Alexandre	3	237
Barbier, Henri Auguste	3	237
Barbier, Paul Jules	3	238
Barneil, Giraud de	4	276
Barres, Maurice	3	277
	11	664
Bartes, Guillaume de Salluste du	3	287
Barthélemy, Auguste Marseille	3	289
Basselin, Oliver	3	317
Batteux, Charles	3	342
Baudelaire, Charles Pierre	3	347
	11	662
Bazin, René François	3	369
Beauchamp, Alphonse de	3	388
Beaunier, André	11	664
Beaumont, Gustave Auguste de la Bonnière de	3	392
Bellay, Joachim du	3	480
Belleau, Rémy	3	481
	11	654
Bellaudiere, Louis Bellaut de la	22	702
Belmontet, Louis	3	493
Belot, Adolphe	3	494
Benserade, Isaac de	3	522
Bentzon, Therese	3	529
	4	59
Béranger, Pierre Jean de	3	534
Bergerac, Savinien Cyrano de	3	545
Bergerat, Auguste Emile	3	546

France — cont'd	Vol.	Page
Berger, Georges	3	545
Bergerat, Auguste Emile	3	546
Bernard du Grail de la Villette	3	568
Bernard, Charles de	3	568
Bernard, Pierre Joseph	3	569
Berguin, Arnaud	3	577
Bertin, Antoine	3	582
Beyle, Marie Henri	3	604
Biart, Lucien	3	611
Bievre, Maréchal	3	692
Bigot, Charles Jules	3	699
Billaut, Adam	3	704
Blanc, Marie Thérèse	4	59
Blouet, Leôn Paul	4	118
Blowitz, Henri Georges Stéphane Adolphe Opper de	13	316
Bobillier, Marie	4	465
Beccage, Marie Anne Fiquet du	4	141
Bodin, Jean	4	144
	11	653
Boëx, Séraphin Justin François	23	702
Boëx, Joseph Henri Honoré	23	702
Boileau-Despreaux, Nicolas	4	165
Boisgobey, Fortuné Abraham du	4	175
Boissier, Marie Louis Gaston	4	175
	11	665
Bonaparte, Lætitia Marie Wyse	4	205
Bonnefon, Jean de	11	665
Bonnemere, Joseph Eugène	4	219
Bordier, Henri Leonard	4	268
Born, Bertrand de	4	276
	22	701
Borneil, Girault de	22	701
Bornier, Henri de	11	663
Bouilhet, Louis Hyacinthe	4	325
Bourget, Paul	4	351
	11	664
Boutmy, Emile	4	355
Brasseur De Bourbourg, Charles Etienne	4	419
Brenet, Michel	4	465
Brillat-Savarin, Anthèlme	4	541
Brunet, Jacques Charles	4	634
Brunetière, Ferdinand	4	634
Budé, Guillaume	4	677
Bungener, Louis Félix	5	24
Burnouf, Emile Louis	5	58
Cairon, Claude Antoine Jules	20	408
Calprenéde, Gautier de Costes de la	5	235
Campan, Jeanne Louise Henriette	5	273
Campardon, Emile	5	276
Capus, Alfred	5	575
Carmontel, Louis Carrogis	5	630
Carmontelle, Louis Carrogis	5	630
Caylus, M. M. de V.	6	155
Cazotte, Jacques	6	157
Chabas, François	6	240
Chaine, Marius	6	246
Chamfort, Sébastien-Roch Nicolas	6	267
Champier, Symphorien	6	271
Chapelain, Jean	6	295
Charriére, Madame St. Hyacinthé de	6	336
Chartier, Alain	6	340
	11	192
Chasles, Victor E. P.	6	347

France — cont'd	Vol.	Page
Chastelard, Pierre de Boscobel de	6	348
Chastellux, François Jean	6	348
Chateaubriand, François A. R. Vicomte de	6	349
Chatelain, Emile L. M.	6	351
Chenier, André Marie de	6	411
	11	657
Cherbuliez, Charles Victor	6	414
Chézy, Antoine Léonard de	6	435
Chincholle, Charles Henri Hippolyte	6	549
Chrestien De Troyes	6	596
	13	108
Cladel, Léon	7	28
Claretie, Arsène Arnaud Jules	7	37
Clugnet, Joseph Léon Tiburce	7	138
Cochin, Henri Denys Benoit Marie	7	182
Colet, Louise Révoil	7	249
Colin, Jean Lambert Alphonse	7	251
Commelin, Jerome	7	364
Constant, Benjamin	11	658
Constant De Rebecque, Henri Benjamin	7	553
Coppée, François Edouard Joachim	7	650
	11	661
Cosquin, Emmanuel	8	38
Cotin, Charles	8	57
Cottin, Marie (called also Sophie) Risteau	8	59
Coucy, Raoul, or Renaud, Châtelain de	8	91
Coulanges, Fustel de	8	94
	11	665
Courrier, Paul Louis	8	113
	11	658
Courtmans, Joanna Desideria Berchmans	8	126
Cousin, Victor	8	127
	11	658
Craven, Pauline de la Ferronays	8	164
Crébillon, Claude Prosper Jolyot de	8	171
Custine, Astolphe	8	336
Cuvillier-Fleury, Alfred Auguste	8	345
Dacier, André	8	388
D'Albano, Leone	23	702
Daniel, Arnaut	22	701
Daudet, Alphonse	8	492
Daudet, Ernest Louis Marie	8	493
Daudet, Léon	11	662
	11	664
D'Aulnoy, Marie Catherine Jumelle de Berneville, Countess	8	494
Deffand, Marie de Vichy-Chamrond, Marquise du	8	586
Delecluze, Etiénne Jean	8	618
Delille, Jacques	8	621
Delorme, Marion	8	625
Demaye, Charles	11	666
Demogeot, Jacques Claude	8	670
Deroulede, Paul	8	715
De Ruyshroek, William of	23	749
Désaugiers, Marc Antoine Madeleine	8	717
Deschamps, Eustache	8	719
Deschanel, Emile Auguste Etienne Martin	8	719

France — cont'd	Vol.	Page
Deschanel, Paul (Eugène Louis)	8	719
Desfontaines, Pierre François Guyot, Abbé	9	9
Deshouliéres, Madame Antoinette de Ligier de la Garde	9	9
Despériers, Bonaventure	9	14
De Vigny, Alfred Comte	9	37
Dierx, Léon	9	96
Dietrich, Auguste Edgard	9	104
Dieulafoy, Jeanne Rachel Mayre	9	105
Didier, Charles	9	92
Diderot, Denis	9	91
Didot, Firmin	9	93
Didot, Hyacinthe Firmin	9	93
Didot, Pierre-François	9	93
Didot, Pierre	9	93
Didot, Ambroise Firmin	9	93
Dijkstra, Waling	9	118
Dolent, Jules	11	664
Dorez, Léon (Louis Marie)	9	265
Doumic, René	9	283
Droogenbroeck, Jan van	9	339
Droz, Gustave	9	343
Drumont, Edouard Adolphe	9	354
Du Bartas, Guillaume Salluste	9	368
Du Camp, Maxime	9	376
Ducange, Charles du Fresne	9	376
Du Cange, Sieur Charles du Fresne	9	376
Duchesne, André	9	377
Duclos, Charles Pinot	9	381
Dufresny, Charles Rivière	9	388
Dulac, Edmund	14	702
Dumas, Alexandre	9	395
Dupont, Pierre	9	413
Durand, Alice Mary Céleste Fleury	9	416
Duvernois, Henri	11	664
Enault, Louis	10	313
Epinay, Madame de la Live d'	10	426
Erckmann-Chatrian	10	470
Esmenard, Joseph Alphonse	10	500
Estienne, Henri	9	88
	10	524
Estienne, Robert	10	524
Estournelles De Constant, Paul Henri Benjamin	10	525
Esquiros, Henri François Alphonse	10	507
Etienne, Henri	10	524
Etienne, Robert	10	524
Exauvillies, Philippe Irénée Boistel d'	10	617
Fabre, Amant Joseph	10	693
Fabre D'Eglantine, Philippe François Nazaire	10	694
Fabre D'Olivet, Antoine	10	694
Fabre, Ferdinand	10	693
	11	665
Fabre, Marie Joseph Victorin	10	694
Faguet, Emile	10	711
Faidit, Gaucelm	22	701
Farrère, Claude	11	664
Fauriel, Claude Charles	11	65
Favre, Abbé	22	703

France — cont'd	Vol.	Page
Fergunt, Jan	9	339
Ferrand, Joseph	11	135
Ferry, Gabriel	11	142
Feuillet, Octave	11	162
Feuillet, Octave	11	663
Féval, Paul Henri Corentin	11	162
Fiévée, Joseph	11	187
Filon, Pierre Marie Augustin	11	211
Fitzclarence, Maria	11	409
Flaubert, Gustave	11	336
	11	663
	23	257
Foa, Eugénie	11	409
Fontane, Marius	11	427
Fontanes, Louis	11	427
Fontenelle, Bernard le Bovier de	11	427
Fonvielle, Wilfred de	11	428
Franc, Martin Le	11	572
France, Anatole	10	510
	11	663
	26	550
Franck, Henri	11	666
Frapié, Leon	11	664
Fréron, Elie Catherine	12	89
Fribourg, André	11	665
Fribourg, Madelin	11	665
Furetière, Antoine	12	179
Gaboriau, Emile	12	214
Gaillardet, Théodore Fréderic	12	227
Galland, Antoine	12	241
Gasparin, Agénor Etienne	12	331
Garros, Pey de	22	702
Gasparin, Valérie Boissier	12	331
Gastineau, Benjamin	12	332
Gautier, Emile Théodore Léon	12	343
Gautier, Judith	12	343
Gautier, Théophile	11	659
	12	344
Gautherot, Gustave	12	343
Gebhart, Emile	12	352
Genlis, Stéphanie Félicité Ducrest de St.-Aubin	12	397
Genoude, Antoine Eugène	12	400
Geoffrin, Marie Thérèse Rodet	12	407
Gérard, De Nerval	12	494
Ghil, René	12	634
Girardin, Madame Delphine Gay de	12	664
Goncourt, de, Edmond Louis Antoine Huot	13	44
Goncourt, Edouard	11	662
Goncourt, Jules de	11	662
Gourmont, Remy de	11	666
Goyau, Pierre Louis Théophile Georges	13	100
Gras, Felix	11	101
	13	152
Gresset, Jean Baptiste Louis	13	462
Griffen, Viollé	11	666
Gringoire, Pierre	13	479
Gringore, Pierre	13	479
Grimm, Friedrich Melchior	13	475
Grolier, De Servières	13	484
Guasco, Alexandre	13	516
Guérin, Eugénie de	11	661
	13	525
Guérin, Georges Maurice	11	661
	13	525

France — cont'd	Vol.	Page
Guillaume Le Breton	13	536
Guillaume D'Orange	13	536
Guillaume de Lorris	11	652
	13	536
Guillaume de Palerme	13	537
Guizot, Elizabeth Charlotte Pauline	13	542
Hachette, Louis Christophe François	13	606
Haidel, Mademoiselle	1	291
Harcourt, Edmond	13	687
Harden-Hickey, James Aloysius	13	697
Harel, Paul	13	707
Halévy, Ludovic	13	636
Hamilton, Anthony	13	657
Havet, Julien	13	767
Helvétius, Claude Adrien	14	87
Héredia, José Maria de	11	661
Hermant, Abel	11	663
Hervieu, Paul	11	664
Hilaire, Emile Marc	24	131
Hirsch, Charles Henry	11	664
Houssaye, Arsène	14	448
Hugo, Victor	11	659
	14	480
Huysmans, L. K	11	662
Janin, Jules Gabriel	15	612
Jasmin, Jacques Boé	15	750
Jubainville, Marie Henri d'Arbois de	16	227
Julien, Stanislas Aignan	16	243
Jullien, Adolphe	16	244
Junot, Laure	16	252
Jusserand, Jean Adrien Aubin Jules	16	262
Kaiser, Isabelle	16	278
Kahn, Gustave	16	277
Karr, Jean Baptiste Alphonse	16	311
Keller, Emile	16	337
Kératry, Auguste Hilarion de	16	375
Kock, Charles Paul de	16	505
	23	257
Labé, Louise	16	588
Labrunie, Gerard	12	494
La Calprenède, Gautier de Costes de	16	568
Lachambeaudie, Pierre	16	633
Lacios, Pierre Ambroise François Choderlos de	16	635
Lacroix, Paul	16	639
La Fayette, Marie Madeleine Pioche de la Vergne, Countess de	16	572
La Fontaine, Jean de	16	573
Laharpe, Jean François de	16	652
La Landelle, Guillaume Joseph Gabriel de	16	576
Lamy, Etienne Marie Victor	16	685
Lamartine, Alphonse Marie Louis de Prat de	16	668
Lanfrey, Pierre	16	715
Lanson, Gustav	16	736
La Porte du Thiel, François Jean Gabriel	16	580
Laprade, Pierre Martin Victor Richard de	16	744
Larisse, Ernest	11	665
Larchey, Etienne Loredan	16	747
Larousse, Pierre	16	751
La Sizeranne, Robert de	16	583
La Sale, Antoine de	16	581
Lavisse, Ernest	17	120
Le Braz, Anatole	17	162

France — cont'd	Vol.	Page
Leblanc, Maurice	17	207
Lebrun, Ponce Denis E.	17	209
Leconte de Lisle, Charles Marie René	17	212
Leger, Louis Paul Marie	17	241
Le Goffic, Charles Henri	17	165
Legouis, Emile	17	256
Legouvé, Gabriel Marie Jean Baptiste	17	256
Legouvé, Gabriel Ernest Wilfrid	17	256
Lehr, Paul Ernest	17	260
Lelong, Jacques	17	277
Lemaire de Belges, Jean	17	277
Lemaître, François Elie Jules	11	662
	11	664
	17	277
Lenôtre, Gerard	11	665
Lespinasse, Julie Jeanne Eléonore de	17	316
Lesage, Alain René	17	314
Levi, Sylvain	17	328
Lisle, Lecomte de	11	661
Littré, Maxmillien Paul Emile	17	525
Loliée, Frédéric Auguste	17	615
Lorrain, Jean	11	665
Loti, Pierre	11	665
	17	669
Loubat, Joseph Florimond	17	671
Louys, Pierre	11	665
	17	693
Mabillon, Jean	18	2
Macaire Le Chevalier Richard	18	5
Maintenon, Madame de	11	655
	18	151
Maindron, Maurice	11	663
Maistre, Xavier	18	152
Maistre, Joseph de	11	658
	18	152
Maizeroy, René	18	153
Malherbe, François de	18	165
Mallarmé, Stéphane	11	665
	18	167
Malot, Hector Henri	18	170
Mardrus, Lucie Delarue	11	666
Marguerite of Navarre	25	58
Marguerite, Paul	11	663
Martel de Janville, Gabrielle	18	332
Marmontel, Jean François	18	305
Marmier, Xavier	18	304
Marot, Clément	11	653
	18	307
Mason, Frederic	11	665
Maupassant, Guy de	11	663
	18	449
Maurras, Charles	11	664
	11	666
Maze, Hippolyte	18	471
Mendés, Catulle	11	662
	12	343
	18	626
Mérimée, Prosper	18	675
Meung, Jean de	11	652
Meyer (Marie), Paul Hyacinthe	19	3
Méziéres, Alfred Jean François	19	5
Michel, Francisque Xavier	19	15
Michaut, Gustave Marie Abel	19	14
Milhaud, Gaston	19	58
Millin, Aubin Louis	19	127
Mirabeau, Gabriel Honoré Riquetti	19	216
Mirbeau, Octave Henri Marie	19	221
Marabeau, Octave	11	663
Miraval, Raimon de	22	701
Mission, Francis Maximilian	19	252
Mistral, Frédéric	11	101
	19	262
Montaigne, Michel Eyquem de	19	381
Montaigne, Michel de	11	653
	19	381
Montepin Xavier Aymon	19	400
Montesquieu - Fezensac, Robert	19	403
Montluc, Blaise de	11	653
Moréas, Jean	11	666
	19	445
Moreau, Hégésippe	19	445
Morelly, R.	19	447
Muelfeld, L.	11	664
Murger, Henri	19	605
	24	359
Musset, Louis Charles Alfred de	11	659
	19	654
Nasier, Alcofribas	23	105
Noailles, Mathieu de	11	666
Nodier, Charles	11	658
	19	388
Nolhac, Pierre	11	665
Necker De Saussure, Adrienne Albertine	20	37
Nerval, Gerard de	11	661
	20	80
Nicolardot, Louis	20	328
Nisard, Jean Marie Napoleon Désiré	20	369
Nodier, Charles	20	388
Nolhac, Pierre de	20	392
Noriac, Jules	20	403
Ohnet, Georges	20	624
Orleans, Charles d'	11	192
Orléans, Charles, Duke of	11	653
	20	814
Orliac, Jeanne d'	11	666
O'Rell, Max	4	118
Pascal, Blaise	11	654
	21	362
Pavillon, Emile	11	665
Peladan, Joséphin	21	490
Perez, José	23	702
Périers, Jean Bonaventure des	21	586
Perrault, Charles	21	604
Perron, Anquetil du	2	675
Petit, Louis	21	672
Petit de Julleville, Louis	21	672
Philippe, Charles Louis	11	664
Pisan, Christine de	11	553
Ponson Du Terrail, Pierre Alexis	22	349
Pontmartin, Armand Ferrand	22	352
Prévost D'Exiles, Antoine François	11	656
	22	565
Prévost, Eugene Marcel	11	664
	22	565
Proudhon, Pierre Joseph	11	658
	22	696
Provins, Marguerite Bornat	11	666
Psalmanazar, George	22	725
Quérard, Joseph Marie	23	83
Quinet, Edgar	23	94
Rabelais, François	9	369
	23	105
Rabutin, Roger de	5	75
Racine, Louis	23	113
Ramée, Pierre	23	201
Rambaud, Alfred Nicholas	23	200
Rattazzi, Marie Studolmine de Solms	23	228
Raymouard, François Juste Marie	23	241
Régnier, Henri François Joseph de	23	325
Régnier, Mathurin	11	654
	23	325
Rémusat, Charles François Marie	23	366
Rémusat, Jean Pierre Abel	23	367
Reinach, Joseph	23	333
Renan, Ernest	23	374
Renard, Jules	11	664
Restif De La Bretonne, Nicolas Edmé	23	419
Richelieu, Cardinal	23	496
Richepin, Jean	11	662
	23	497
Rimbeaud, Jean Arthur	23	524
Riou, Gaston	11	666
Rivarol, Antoine	23	546
Rodzuise, Edouard	11	663
Rolland, Romaine	23	635
Ronsard, Pierre de	11	654
	23	677
Rosny, Joseph Henry	23	702
Rosny, Léon Louis Lucien Prunol de	23	702
Rostand, Edmond	11	663
	23	712
Roumanille, Joseph	11	101
Rousseau, Jean Baptiste	23	723
Rousseau, Jean-Jacques	23	723
Rousselot, Jean Pierre	11	656
	23	727
Rubruquis, William of	23	749
Rubrouck, William of	23	749
Rysbruck, William of	23	749
Saint-Evremond, Charles de Marguetel de Saint Denis	24	128
Sade, Donatien Alphonse François	24	100
Saint-Hilaire, Marco de	24	131
Saint-Lambert, Jean François	24	139
Saint-Marc-Girardin, François Auguste	24	153
Saint-Pierre, Jacques Henri Bernardine de	11	656
	24	166
Saint Simon, Louis de Rounvroy, Duc de	24	169
Saint-Victor, Paul Binsse	24	171
Sainte-Beuve, Charles Augustin	24	172
Salembier, Louis	24	181
Samain, Albert	11	666
Sand, George	11	660
	24	249
Saumaise, Claude de	24	190
Salmasius, Claudius	24	190
Scaliger, Joseph Justus	24	348
Scherer, Edmond (Henri Adolphe)	24	368
Scudéri, Madeleine de	24	457
Scudéry, Madeleine de	24	457
Sebillot, Paul	24	499
Ségur, Joseph Alexandre	24	532
Ségur, Paul Philippe	24	532
Sévigné, Marie de Rabutin-Chantal	11	655
	24	623
Silvestre, Paul Armand	11	662
	25	20
Sorel, Georges	25	264
Souvestre, Emile	25	317

France — cont'd Vol. Page

Staal De Lunay, Marguerite Jeanne Cordier 25 468
Staël-Holstein, Anne Louise Germaine Necker 25 468
Staël, Madame de 11 658
25 468
Stapfer, Paul 25 488
Stephanus, Charles 25 616
Stephanus, Robert 25 617
Sully-Prudhomme, René François, Armand 25 809
Taine, Hippolyte 11 662
26 218
Taschereau, Jules Antoine 26 278
Thaon, Philippe de 26 489
Tharaud, Jean 11 664
Tharaud, Jérôme 11 664
Theuriet, André 11 665
Theuriet, Claude André 26 550
Thiers, Louis Adolphe 26 552
Thibault, Jacques Anatole France 26 550
Thiers, Jules Favre 11 662
Thiery, Augustin 11 661
Tinayre, Marcelle 11 664
Tocqueville, Alexis Charles Henri Clérel de 26 665
Tylpinus 27 207
Urfé, Honoré d' 11 655
27 592
Uzanne, Louis Octave 27 628
Vacherot, Etienne 27 635
Vapereau, Louis Gustave 27 686
Veuillot, Louis 11 662
28 55
Ventadour, Bernart de 22 700
Verlaine, Paul 28 15
Verne, Jules 11 663
28 31
Viardot, Louis 28 56
Viaud, Louis Marie Julien 17 669
Vidal, Arnaud 28 76
Vidal, Pierre 22 701
28 76
Vigny, Alfred Victor 11 659
28 85
Villehardouin, Geoffroy de 11 652
Villemain, Abel François 11 192
28 92
Villon, François 11 653
28 93
Vincent of Beauvais 28 96
Vitet, Ludovic 28 152
Vogüé, Eugène Marie Melchior 28 164
Voiture, Vincent 28 169
Volney, Constantin François de Chasseboeuf 28 174
Voltaire, Jean François Marie Arouet 28 176
Walckenaër, Charles Athanase 28 219
Waltz, Jean Jacques 28 252
William of Lorris 20 336
William of Normandy (the Clerc) 20 336
Willy, Colette 11 665
Xavier Boniface 24 173
Yriarte, Charles Emile 20 670
Yver, Colette 11 664
Zola, Emile Edouard Charles Antoine 11 662
23 257
29 721

France — cont'd Vol. Page

Drama

Athalie 2 491
23 113
Aubry's Dog 2 531
Avare, L' 2 671
Barber of Seville, The 3 235
Bergeries, Les 21 376
Chantecler 6 292
23 712
Cid, The 6 672
Classical comedy, French 11 672
Comédie Française 7 353
Comedy, French 9 305
classical 11 672
Cyrano de Bergerac 8 370
23 712
Don César De Bazan 9 250
Drama, French 9 306
9 309
Esther 10 522
Farces, French 9 305
Froufrou 12 127
Labyrinth, The 16 625
La Dame aux Camélias 16 570
L'Aiglon 16 565
Learned Ladies, The 17 179
Le Menteur 17 166
Malade Imaginaire, Le 18 159
Marriage of Figaro 18 318
Metromanie 22 115
Misanthrope, Le 19 224
Monde (Le) Où L'on s'ennuie 19 343
On ne badine pas avec l'Amour 29 686
Phèdre 21 717
Précieuses Ridicules, Les 22 521
Realistic and Psychological theatre, French 11 665
Red Robe, The 23 283
Romantic theatre, French 11 660
Ruy Blas 24 69
Son of Giboyer, The 25 253
Sottises 9 305
Symbolist theatre 11 666
Symbolists 26 162
Tartuffe 26 278

Biographies

Augier, Guillaume Victor Emile 2 540
11 678
Aubinoc, François Hédelin 2 530
Bataille, Henri 11 665
Beaumarchais, Pierre Augustine Caronde 3 391
11 665
Becque, Henri 3 409
11 679
Belloy, Pierre Laurent Buirette de 3 492
Bernard, Courteline 11 665
Bernard, Tristan 11 665
Bernstein, Henri 11 665
Blum, Ernest 4 131
Bisson, Alexandre 4 23
Bouilly, Jean Nicholas 4 327
Boursault, Edmé 4 353
Bornier, Henri 4 280
11 678
Brieux, Eugène 4 535
11 679
Cadol, Victor Edouard 5 134
Capus, Alfred 5 575
11 665
Carré, Michel 5 663
Chenier, Marie Joseph de 6 411

France — cont'd Vol. Page

Collin D'Harleville, Jean François 7 267
Coppée, François 7 650
11 678
Corneille, Pierre 7 707
Corneille, Thomas 7 708
11 672
Crébillon, Prosper Joylot de 8 171
Curel, Monsieur de 11 679
Curel, François de 11 665
Decourcelle, Pierre 8 572
Delavigne, Jean François Casimir 8 608
Delavigne, Casimir 8 608
11 660
11 678
Donnay, Maurice Charles 9 258
11 665
Doucet, Charles Camille 9 276
Dreyfus, Abraham 9 334
Dumersan, Théophile Marion 9 398
Dumas, Alexandre 9 396
11 660
11 676
11 678
Etienne, Charles Guillaume 10 554
Ennery, Adolphe Philippe D., frequently called Dennery 10 391
Fabre, Emile 11 665
11 679
Favart, Charles Simon 11 69
Ferrier, Paul 11 141
Garnier, Robert 11 669
Geoffroy, Julien Louis 12 407
Gheon, Henri 11 666
Gresset, Jean Baptiste Louis 13 462
Guitry, Sacha 11 665
Hardy, Alexander 9 307
11 669
Hervieu, Paul 11 665
14 153
Hugo, Victor 11 677
14 480
Labiche, Eugène Marin 16 589
La Chaussée, Pierre Claude Nivelle de 16 568
Larivey, Pierre 11 670
16 749
Lavedan, Henri 17 118
Laya, Jean Louis 17 157
Lenormant, H. R. 11 666
Macaire, Robert 18 6
Marivaux, Pierre Carlet de Chamberlain de 18 297
Meilhac, Henri 18 597
Molière, Jean Baptiste Poquelin 11 670
19 323
Montchrestien, Antoine de 11 669
19 397
Musset, Louis Charles Alfred de 11 677
19 654
Nus, Eugène 20 508
Orliac, J. d' 11 666
Pailleron, Edouard Jules Henri 21 104
Pathelin, Maistre Pierre 21 392
Picard, Louis Benoit 22 62
Piron, Alexis 22 115
Pocquelin, Jean Baptiste 11 672
19 323
Ponsard, François 22 349
Quinault, Philippe 23 91

France — cont'd	Vol.	Page
Racine, Jean Baptiste..	11	670
	23	112
Richepin, Jean.....	11	678
	23	497
Rivoire, André.....	23	555
Rostand, Edmond.....	23	712
Sardou, Victorien.....	11	678
	24	302
Scarron, Paul.....	24	358
Scribe, Augustin Eugène	24	454
Ségur-D'Aguesseau, Louis Phillipe, Comte de	24	532
Vigny, Alfred de.....	11	660
	11	676
	28	85
Voltaire, Jean François Marie Arouet.....	11	673
	28	176

GERMANY

Subjects

Germany — cont'd	Vol.	Page
Acta Eruditorum.....	1	106
Adventures of Baron Munchausen, The....	1	165
Æsthetische Feldzüge...	16	248
Almanac	1	431
Arme Heinrich, der.....	8	707
At Odds.....	2	486
Auf Der Höhe.....	2	539
Aus Dem Leben Eines Taugenichts	2	558
Bell, Song of the.....	3	478
Brangwaine	4	414
Büttnerbaur, der.....	22	301
Capital, Das.....	5	560
Children of the World..	6	485
Chips from a German Workshop	6	565
Colloquies of Erasmus, The	7	272
Debit and Credit.....	8	543
Der Heilige.....	24	120
Des Meeres und der Liebe Wellen.....	9	11
Earliest Teutonic poetry	14	139
Elective Affinities, The.	10	68
Elexiere der Teufels, die	9	94
Epistolæ Obscurorum Virorum	10	435
Faust	13	1
	13	3
	13	4
Fortunatus	11	522
Frau Sorge.....	12	28
German literature.....	12	532
German law.....	23	452
German Odyssey.....	13	522
Goethe's Autobiography.	22	279
Grabenhoger, der.....	22	301
Grüne Heinrich, der....	8	708
Gudrun	13	522
Hermann und Dorothea.	14	129
	19	709
Immensee	14	712
Jörn Uhl.....	16	210
Jung-Deutschland	16	248
Kampf Um Rom.....	16	289
Kinder der Welt.....	6	485
Lamprecht the Priest..	16	684
Laokoon	16	739
Lenore	17	287
Lay of Hildebrand.....	23	646
Lichtenstein	17	401
Lied Von Der Glocke, Das	17	407
Ludwigslied	17	723
Magda	18	113
Messiah, The.....	18	693
Michael Kohlhaas.....	19	12
Michelangelo, Life of...	19	17
Middle High German...	23	454
Narrenschiff, Das.....	19	710
Nathan The Wise.....	19	723
Nibelungen	19	708
Nibelungenlied, The....	20	299
Oberon	20	539
Periodical literature, German	21	593
Pfarrer von Bréitendorf.	22	301
Pictures of Travel.....	22	71
Poetry and Truth.....	22	278
Problematische Naturen.	22	624
Reisebilder	23	335
Rhine	3	405
Rolandslied	23	634
Romantic School.....	23	656
Romantic School in Germany, The.....	23	656
Saint, The.....	24	120
Simplicissimus	25	27
Sonnets from Venice....	25	258
Sorrows of Young Werther, The.....	25	267
Sunken Bell, The.....	26	37
Translations from Shakespeare	24	376
Tristan	27	77
Trumpeter of Säkkingen, The	27	107
Varda	27	249
Versunkene Glocke.....	26	37
Wartburg, War of the..	28	768
Werther	13	2
	13	3

Biographies

Germany — cont'd	Vol.	Page
Abschatz, Hans Assmann	1	52
Adami, Friedrich Wilhelm	1	118
Agricola, Georg.....	1	242
Agrippa von Nettesheim, Heinrich Cornelius....	1	267
Allmers, Hermann Ludwig	1	423
Alsted, Johann Heinrich	1	443
Amyntor, Gerhard von..	1	598
Ancillon, Johann Peter Friedrich	1	654
Apel, Johann August....	2	54
Arndt, Ernst Moritz.....	2	310
Arnim, Elisabeth von...	2	311
Arnim, Ludwig Achim von	2	311
Arnold, Johann Georg Daniel	2	315
Asmus, Georg.....	2	401
Assing, Ludmilla.....	2	423
Ast, Georg Anton Friedrich	2	442
Aue, Hartmann von.....	2	538
Auerbach, Berthold.....	2	538
Aurbacher, Ludwig.....	2	553
Ave-Lallemant, Robert Christian Berthold....	2	672
Avenarius, Ferdinand...	2	673
Ayer, Jaccob.....	2	685
Bachtold, Jakob.....	3	17
Bahr, Johann Christian Felix	3	47
Baruch, Lob.....	4	276
Baudissin, Wolf Friedrich Karl, Count von.	3	348
Baumbach, Rudolf.....	3	350
Bauer, Edgar.....	3	348
Bayer, Karl Robert Emerich von.....	3	364
Bebel, Heinrich.....	3	401
Bechstein, Ludwig.....	3	402
Beck, Christian Daniel..	3	403
Becker, August.....	3	404
Becker, Nikolaus.....	3	405
Becker, Rudolf Zacharias	3	405
Becker, Wilhelm Gottlieb	3	405
Behrens, Bertha.....	3	449
Bentzel-Sternau, Count Karl Christian Ernst von	3	529
Beyerlein, Franz Adam.	3	604
Biernatzki, Johann Christoph	3	692
Bierbaum, Otto Julius..	3	692
Binzer, August Daniel von	3	717
Bischoff, Joseph Eduard Konrad	4	12
Bleibtreu, Karl August.	4	76
Blind, Karl.....	4	82
Blomfield, Edward Valentine	4	103
Blüthgen, August Eduard Viktor.....	4	133
Bodenstedt, Friedrich Martin von.....	4	144
Bodmer, Johann Jakob.	4	146
Böhlau, Helene.....	4	162
Bohlen, Peter von.....	4	162
Bormann, Edwin.....	4	275
Börne, Ludwig.....	4	276
Bornemann, Wilhelm...	4	276
Böttger, Adolf.....	4	316
Brandt, Sebastian.....	4	415
Brant, Sebastian.....	4	415
Brentano, Clemens.....	4	467
Brion, Friedrike Elisabeth	4	543
Buchholz family.....	4	663
Büchner, Georg.....	4	663
Büchner, Luise.....	4	664
Bulow, Margarete von..	5	19
Bülow, Karl Eduard von	5	19
Bürger, Gottfried August	5	37
Busch, Moritz.....	5	72
Camerarius, Joachim....	5	262
Campe, Joachim Heinrich	5	282
Canitz, Freidrich Rudolf Ludwig	5	501
Cardauns, Hermann.....	5	598
Carus, Sterne.....	16	539
Chamberlain, Houston S.	6	259
Chézy, Wilhelm von.....	6	435
Claudius, Matthias.....	7	62
Creizenach, Theodor Adolf	8	177
Dach, Simon.....	8	388
Daumer, Georg Friedrich	8	494
Dauthendey, Max.....	8	495
Dedekind, Friedrich.....	8	573
Dehmel, Richard.....	8	600
Delius, Nikolaus.....	8	623
Diefenbach, Georg Christian	9	95
Diek, Hermann.....	9	95
Dincklage-Campe, Amalie (Emmy) von.....	9	124
Dindorf, Karl Wilhelm..	9	124
Dingelstedt, Franz von.	9	125
Dohm, Ernst.....	9	233
Dove, Alfred.....	9	283
Duboc, Charles Eduard.	28	223
Duboc, Julius.....	9	373
Duncker, Dora.....	9	402
Eberhard, Christian August Gottlob.....	9	519
Ebers, Georg Moritz....	9	520
Eckermann, Johann Peter	9	545
Eckstein, Ernst.....	9	546
Eichendorff, Joseph.....	10	25
Eichrodt, Ludwig.....	10	26
Elze, Karl.....	10	269

Germany — cont'd	Vol.	Page
Emmeram, Eusebius	8	494
Engel, Johann Jakob	10	335
Ersch, Johann Samuel	10	485
Eschenbach, Wolfram von	10	494
Eschenburg, Johann Joachim	10	494
Euringer, Sebastian	10	579
Eyb, Albrecht von	10	675
Eyth, Eduard	10	685
Fabricius, Georg	10	696
Falk, Johannes Daniel	10	729
Fallersleben, Hoffmann von	14	309
Falke, Gustav	10	729
Faust, Albert Bernhardt	11	65
Federn, Karl	11	88
Fischer, Johann Georg	11	264
Fleming, Paul	11	345
Flemming, Paul	11	345
Follen, August	11	423
Fortiguerra, Niccolo	11	522
Fontane, Theodor	11	427
Fouque, Friedrich H. K.	11	548
Franckes, Kuno	11	762
François, Louise von	12	3
Frapan Isle	12	20
Frauenlob	12	28
Frenzel, Karl Wilhelm	12	88
Frenssen, Gustav	12	87
Friedmann, Alfred	12	104
Freiligrath, Ferdinand	12	56
Froben, or Frobenius, Joannes	12	114
Freytag, Gustav	12	99
Gaedertz, Karl Theodor	12	218
Geffcken, Johannes	12	357
Geibel, Emanuel	12	358
Gellert, Christian Fürchtegott	12	362
Genee, Rudolf	12	371
Gensichen, Otto Franz	12	401
George, Stefan	12	479
Gerhardt, Paul	12	496
Goethe, Johann Wolfgang	13	1
Gottfried of Strassburg	13	81
Greif, Martin	13	459
Griesinger, Karl Theodor	13	469
Grimm, Hermann	13	475
Grimmelshausen, Hans Jakob Kristoffel von	13	476
Grisebach, Eduard	13	481
Groben, Otto Friedrich von der	13	483
Grober, Gustav	13	483
Grosse, Julius Waldemar	13	488
Groth, Klaus	13	490
Grübel, Johann Konrad	13	503
Gruber, Johann Gottfried	13	503
Gryphius, Andreas (Greif)	13	506
Günther, Johann Christian	13	574
Guntherus	13	573
Gutzkow, Karl	13	582
Häcklander, Friedrich Wilhelm von	13	607
Halbe, Max	13	629
Hardenberg, Friedrich Leopold	13	697
Hartleben, Otto Erich	13	740
Hardt, Ernest	13	699
Hauff, Wilhelm	13	758
Hauptmann, Gerhardt	12	538
Hauptmann, Karl	13	761
Hebel, Johann Peter	14	56
Hegeler, Wilhelm	14	69
Heine, Heinrich	14	71
Heinrich Von Ofterdingen	14	74
Herder, Johann Gottfried von	14	123
Herder, J. G.	12	535
	14	123
Hesse, Hermann	14	155
Herwegh, Georg	14	153
Heyse, Paul	14	163
Hillebrand, Karl	14	190
Hillern, Wilhelmine von	14	190
Hoffmann, August Heinrich	14	309
Hoffmann, Ernst Theodor Wilhelm	14	309
Holly, Julius	16	192
Hrabanus, Maurus	23	103
Hrotswitha	23	723
Hölty, Ludwig Heinrich Christoph	14	325
Holz, Arno	14	332
Holzamer, Wilhelm	14	332
Huber, Ludwig Ferdinand	14	465
Huber, Victor Aimé	14	465
Hübner, Emil	14	466
Huch, Ricarda	14	466
Immisch, Otto	14	716
Istel, Edgar	15	425
Jacobi, Herman Georg Jakob	15	589
Jastrow, Ignaz	15	752
Jensen, Wilhelm	16	16
John, Eugenie	16	156
Jülg, Bernhard	16	241
Junghaus, Sophie	16	248
Junius, Franciscus	16	250
Justi, Ferdinand	16	263
Kaden, Waldemar	16	275
Kalp, Charlotte von	16	285
Kalbeck, Max	16	281
Kampers, Franz	16	288
Kannegiser, Karl Friedrich Ludwig	16	293
Kapp, Freidrich	16	307
Kaufmann, Alexander	16	319
Keller, Gottfried	16	338
Kellerman, Bernhard	16	339
Kerner, Justinius	16	379
Kerr, Alfred	16	380
Kettenberg, Susanne Katherine von	16	384
Keyserling, Eduard Graf von	16	389
Keyserling, Margarethe, Gräfin von	16	389
Kielhorn, Lorenz Franz	16	407
Kirchhoff, Johann Wilhelm Adolf	16	455
Kirchback, Wolfgang	16	455
Kinkel, Gottfried	16	450
Kirsch, Johann Peter	16	459
Kleist, Ewald Christian von	16	471
Klenck-Chezy, Wilhelmine Christine von	16	471
Klinger, Friedrich Maximilian von	16	472
Kluckhohn, August	16	475
Klüber, Johann Ludwig	16	475
Kloss, Georg Franz Burkhard	16	474
Klotz, Christian Adolf	16	474
Klopstock, Friedrich Gottlieb	16	474
Kluge, Friedrich	16	476
Knebel, Karl Ludwig	16	477
Knigge, Adolphus Francis Frederic Louis, Baron de	16	480
Knobelsdorff - Brenkenhoff, Nataly von	16	488
Knoop, Gerhard Julius Ouckama	16	490
Koberstein, Karl August	16	503
Koch, Max	16	504
Kohn, Salomon	16	509
König, Heinrich Joseph	16	516
Konrad Von Megenberg	16	519
Konrad Der Pfaffe	16	519
Konrad Von Würzburg	16	519
König, Friedrich Eduard	16	516
Kopisch, August	16	520
Körting, Gustav	16	530
Kortum, Karl Arnold	16	530
Kornemann, Ernst W. G.	16	528
Körner, Karl Theodor	16	529
Kosegarten, Johann Gottfried Ludwig	16	531
Koser, Reinhold	16	531
Kretzer, Max	16	542
Kroll, Wilhelm	16	544
Kromayer, Johannes	16	544
Krumbacher, Karl	16	547
Kugler, Franz Theodor	16	552
Kummer, Friedrich	16	555
Kürnberger, Ferdinand	16	559
Kurz, Heinrich	16	560
Lafontaine, August Heinrich Julius	16	650
Lamprecht, Karl	16	683
Lang, Ernst Philipp Karl	16	718
Lang, Karl Heinrich Ritter, von	16	716
Langbein, August Friedrich Ernst	16	717
Langenscheidt, Gustav	16	719
Lappenberg, Johann Martin	16	744
La Roche, Sophie	16	580
Lassberg, Joseph Maria Christoph, Baron von	16	758
Laube, Heinrich	17	98
Lauff, Joseph	17	101
Lauremberg, Johann	17	108
Lauscher, Hermann	14	155
Leixner-Grünberg, Otto von	17	274
Lemmius, Simon	17	280
Levien Ilse	17	329
Liechtenberg, Georg Christoph	17	401
Lingg, Hermann von	17	460
Littmann, Enno	17	525
Lorenz, Ottokar	17	661
Lübke, Wilhelm	17	712
Lublinski, Samuel	17	713
Lützow, Franz Heinrich Valentin	17	763
Lützow, Karl von	17	763
Mann, Heinrich	18	227
Mann, Thomas	18	228
Margadant, Simon Lemm	17	280
Mauthner, Fritz	18	453
Menzel, Wolfgang	18	653
Meyer, Joseph	19	3
Meyer, Kuno	19	3
Meyer-Lübke, Wilhelm	19	4
Miller, Johann Martin	19	120
Mohl, Julius von	19	368
Mörike, Eduard	19	458
Moritz, Karl Philipp	19	460
Moscherosch, Johann Michael	19	495
Mosen, Julius	19	498
Moser, Justus	19	499
Müller, Wilhelm	19	559
Mundt, Klara Müller	19	564

Germany — cont'd	Vol.	Page
Mundt, Theodor	19	564
Murner, Thomas	19	607
Muther, Richard	19	656
Natorp, Paul Gerhard	19	767
Neidhart Von Reuenthal	20	61
Nicolai, Christoph Friedrich	20	327
Niebuhr, Barthold Georg	20	332
Nordau, Max Simon	20	397
Oldenburg, Henry	20	657
Opitz, Martin	20	710
Oswald, von Wolkensten	21	38
Peale, Patrick	21	451
	24	511
Perthes, Friedrich Christoph	21	642
Polenz, Wilhelm von	22	301
Polko, Elise Vogel	22	318
Pöllnitz, Karl Ludwig	22	323
Pott, August Friedrich	22	451
Prutz, Hans Georg	22	722
Prutz, Robert Edward	22	723
Putlitz, Gustav Heinrich Gans	23	83
Raabe, Wilhelm	23	102
Rabanus, Maurus	23	103
Raupach, Ernst Benjamin Salomo	23	231
Reber, Franz von	23	265
Reinick, Robert	23	335
Reuter, Fritz	23	439
Richter, Johann Paul Friedrich	23	507
Richter, Jean Paul	23	507
Ritschl, Friedrich Wilhelm	23	542
Rodenberg, Julius	23	619
Roediger, Emil	23	626
Roquette, Otto	23	687
Ruckert, Friedrich	23	751
Rudolf of Ems	23	753
Sachs, Hans	24	88
Schaffner, Jakob	24	363
Scheffel, Joseph Victor von	24	364
	27	107
Schefer, Leopold	24	364
Scherr, Johannes	24	369
Schlegel, August Wilhelm von	24	376
Schlegel, Karl Wilhelm Friedrich von	24	376
Schlosser, Friedrich Christoph	24	381
Schmid, Ulrich	24	382
Schoenfeld, Hermann	24	384
Schubart, Christian Friedrich Daniel	24	403
Scioppius, Kasper	24	422
Seckendorf, Gustav Anton von	24	511
Simrock, Karl Joseph	25	28
Spielhagen, Friedrich	25	410
Spitta, Karl Johann Phillip	25	424
Stein, Charlotte von	25	610
Stinde, Julius	25	652
Stolberg, Christian	25	670
Stolberg, Friedrich Leopold	25	670
Storm, Theodore	25	698
Strasburg, Gottfried von	27	77
Strauss, Emil	25	719
Sturm, Julius	25	758
Sudermann, Hermann	25	788
Tauchnitz, Christian Bernhard	26	284
Tauchnitz, Karl Christoph Traugott	26	284
Thoma, Ludwig	26	570
Tiedge, Christoph August	26	618
Till, Eulenspiegel	26	626
Uhland, Johann Ludwig	27	253
Ulrich Von Lichtenstein	27	263
Varnhagen Von Ense, Rahel (Levin)	27	690
Varnhagen Von Ense, Karl August	27	689
Viebig, Clara	28	78
Von Droste-Hülshoff, Annette Elisabeth	28	184
Voss, Johann Heinrich	28	187
Vulpius, Christian August	28	200
Waagen, Gustav Friedrich	28	202
Waldis, Burkard	28	223
Waldmüller, Robert	28	223
Wellhausen, Julius	29	180
Wieland, Christoph Martin	29	296
Wolf, Hieronymus	29	437
Wolf, Friedrich August	29	437
Wolff, Julius	29	442
Wolff, Oskar Ludwig Bernhard	29	442
Wolfram von Eschenbach	29	442
	12	534
Zacharia, Just Friedrich Wilhelm	29	680
Zacharia, Heinrich Albert	29	680
Zarncke, Friedrich	29	689
Zeise, Heinrich	29	696
Zeising, Adolf	29	696
Ziegler und Klipphausen, Heinrich Anselm von	29	708
Zimmerman, Wilhelm	29	710
Zung, Leopold	29	740

Drama

Bride of Messina, The	4	495
	24	373
Das Kätchen von Heilbronn	8	488
Don Carlos	5	620
	24	371
Drama, German	9	308
	9	309
Egmont	9	731
Electra	10	89
Faust	11	67
Journalists, The	16	223
Kabale und Liebe	16	274
Lost Paradise, The	17	667
Maid of Orleans	24	373
Maria Magdelena	18	283
Mary Stuart	24	373
Minna Von Barnhelm	19	196
Wallenstein	24	372
	28	240
Weavers, The	29	136
Wilhelm Tell	24	373
	29	318

Biographies

Anzengruber, Ludwig	2	50
Auffenberg, Joseph	2	589
Beer, Michael	3	429
Brachvogel, Albert Emil	4	381
Bulthaupt, Heinrich Alfred	5	19
Feldmann, Leopold	11	98
Fitger, Arthur Heinrich Wilhelm	11	299
Frey, Friedrich Hermann	13	459
Fulda, Ludwig	12	151
Greif, Martin	13	459
Hauptmann, Gerhart	13	760
Hebbel, Friedrich	14	55
Hirschfeld, Georg	14	204
Immermann, Karl Leberecht	14	713
Kind, Johann Friedrich	16	416
Kleist, Heinrich Bernt Wilhelm von	16	471
Köberle, Georg	16	503
Koberstein, Karl	16	503
Köster, Hans	16	533
Kotzebue, August Friedrich Ferdinand von	16	535
Kruse, Heinrich	16	548
Lessing, Gotthold Ephraim	17	317
Ludwig, Otto	17	722
Mosenthal, Salomon Hermann von	19	498
Moser, Gustav von	19	499
Philippi, Felix	21	746
Platen-Hallermünd, August	22	229
Schiller, Johann Christoph Friedrich	24	370
Tieck, Johann Ludwig	26	617
Wedekind, Frank	29	153
Werner, Friedrich Ludwig Zacharias	29	194
Ziegler, Friedrich Wilhelm	29	707

ITALY

Subjects

Almanac	1	481
Ambrosian Library	1	474
Arcadia	2	148
	15	510
Ballerina, La	16	566
Betrothed, The (1)	3	594
Betrothed, The (2)	3	394
Canzoniere	21	675
Cavalleria Rusticana	6	187
Cellini's Autobiography	6	174
Cento Novelle Antiche	20	477
Comedietta	7	354
Decameron, The	8	553
Dialogues of Leopardi, The	9	59
Dianora	9	70
Divina Commedia, La	15	504
Divine Comedy, The	9	199
	19	708
Symbolism of	9	200
Hell	9	200
Mountain of Purgatory, The	9	201
Paradise	9	201
Eternal City, The	10	531
Fescennine Verses	11	152
Gerusalemme	26	281
Gerusallemme Liberata	19	708
Green Books	4	124
Griselda	13	481
Humanism	15	445
Il Signor Io	14	676
Italia Irredenta	3	343
Italian Literature	15	502
Jerusalem Delivered	16	32
Jerusalem Redeemed	24	589
Last Letters of Jacob Ortis	16	760
Le Mie Prigioni	19	658
Leopardi's Pessimism	9	59
Letters, Florentine Academy of	15	499
Literature, Italian	15	502
Little Old World, The	17	521
Morgante Maggiore	19	456

Italy — cont'd	Vol.	Page
My Prisons	19	658
Orfeo	21	375
Orlando Furioso	19	709
	20	813
	23	633
Orlando Innamorato	20	814
Pastor Fido	21	374
	21	375
Periodical Literature	21	594
Petrarch's Sonnets	21	675
Piacere	22	51
Piccolo Mondo Antico	17	521
Prince, The	22	580
Promessi Sposi, I	22	651
Rinnovamento	15	510
Saul	24	317
Seven Wise Men	15	503
Tesoretto, Il	27	23
Treasury, The Little	27	23
Vita Nuova, La	16	586
	28	146

Biographies

Accolti, Bernardo	1	76
Accolti, Benedetto	1	76
Acerbi, Giuseppe	1	83
Acquaviva, Andrea Matteo	1	102
Alamanni, Luigi	1	308
Albany, Louisa Caroline	1	326
Alciati, Andrea	1	344
Aleardi, Gaetano Aleardo	1	357
Alfieri, Vittorio	1	326
	1	377
Algarotti, Francesco	1	381
Aloysia, Louisa Caroline	1	326
Amicis, Edmondo de	1	572
Ancona, Alessandro d'	1	655
Andreini, Giovanni Battista	1	672
Annunzio, Gabriel d'	2	3
Aretino, Carlo	2	193
Aretino, Pietro	2	194
	15	508
Arici, Cesare	2	284
Ariosto, Ludovico	2	285
Ascoli, Graziado Isaia	2	381
Assemani, Simon	2	415
Assisi, Saint Francis of	15	503
Aurispa, Giovanni	2	555
Azeglio, Massimo Taparelli	2	688
	15	455
Balbi, Giovanni	3	72
Balbo, Cesar	3	72
	15	455
Baldi, Bernardino	3	75
Balducci, Francesco	3	75
Bandello, Matteo	3	139
Bandettini, Teresa	3	189
Baptista, John	3	219
Baretti, Giuseppe Marc' Antonio	3	246
Barrili, Antonio Giulio	3	279
Bassi, Ugo	3	318
Battisti, Cesare	3	343
Beccaria, Cesare Bonesana, Marchese di	3	401
Belli, Giusseppe Giochino	3	494
Bembo, Pietro	3	497
Berchet, Giovanni	3	537
Berni, Francesco	3	573
	15	508
Beroaldo, Filippo	3	577
Berszio, Vittorio	3	579
Bettinelli, Saverio	3	596
Bibbiena, Bernardo Dovizio da	3	612
Bicci, Ersilio	3	679
Boccaccio, Giovanni	4	139
	11	553
	15	505
	15	445
	15	499
	15	503
Boiardo, Matteo Maria	4	163
	15	507
Bondi, Clemente	4	210
Bracciolini, Poggio Giovanni Francesco	4	379
	15	510
Bruno, Giordano	4	635
	15	510
Bruno, Leonardo	4	634
Bruni, Leonardo	4	634
Brunus, Leonardo	4	634
Burchiello, Domenico	5	83
Butti, Enrico	15	513
Buvalelli, Rambertino	15	503
Caccianiga, Antonio	5	128
Capilupi, Camillo	5	558
Capuana, Luigi	5	574
	15	513
Carcano, Giulio	5	596
Carducci, Giosue	5	605
Caro, Annibale	5	645
Carrera, Valentino	5	664
Carrer, Luigi	5	664
Casanova de Seingalt, Giovanni Giacomo	5	694
Casti, G	6	5
Castiglione, Baldassar da	6	5
	15	508
Cavalacanti, Guido	6	135
	15	445
Cecchi, Giammaria	6	158
Cecco D'Ascoli, Francesco degli Stabili	6	159
Cellini, Benvenuto	6	173
	15	508
Cerretti, Luigi	6	226
Cesarotti, Melchiore	6	231
	15	511
Chiabrera, Gabriello	6	435
Chiarini, Giuseppe	6	436
Ciampi, Ignazio	6	666
Ciampi, Sebastiano	6	666
Ciampoli, Domenico	6	666
Colonna, Vittoria	7	299
	15	508
Comba, Emilio	7	348
Comparetti, Domenico Pietro Antonio	7	427
Cossio, Aluigi	8	39
Crescimbeni, Giovanni Maria	8	181
Dante, Alighieri	8	464
	11	552
	15	445
	15	499
	15	503
	15	504
D'Annunzio, Gabriele	2	3
	15	513
Da Rimini, Francesca	8	476
Deledda, Grazia	8	618
Durante, Alighieri	8	464
Errante, Vincenzo	10	484
Fanfani, Pietro	11	10
Farina, Salvatore	11	20
Fenestella	11	115
Ferrari, Benedetto	11	136
Ferrazzi, Giuseppi Jacopo	11	138
Ferrucci, Caterina Franceschi	15	492
Filicaia, Vincenzo do	11	208
Firenzuola, Agnolo	11	249
Fogazzaro, Antonio	11	412
	15	513
Folengo, Teofilo	11	414
Forcellini, Egidio	11	464
Foscolo, Ugo	11	526
	15	511
Fracastorio, Girolamo	11	569
Franchi, Vernecq	15	538
Fronto, Marcus Cornelius	12	123
Frugoni, Carlo Innocenzio Maria	12	128
Fuà-Fusinato, Erminia	12	141
Gioberti, Vincenzo	15	455
Giusti, Giuseppe	12	669
Gnoli, Domenico	12	786
Goldoni, Carlo	13	31
	15	502
	15	511
Gozzi, Carlo	13	101
Grossi, Tommaso	13	488
Guarini, Giovanni Battista	13	515
Gubernatis, Angelo de	13	521
Guerrini, Olindo	13	526
Guidi, Carlo Alessandro	13	532
Guidiccioni, Giovanni	13	533
Guido Delle Colonne	13	533
Guinicelli, Guido	13	540
Guittone, D'Arezzo	13	541
Imbriani, Vittorio	14	708
Jacopome Da Todi	15	593
Latini, Brunetto	17	95
	27	23
Leo Pilatus	17	303
Leonzio Pilato	17	303
Leopardi, Giacomo	15	512
	17	304
Machiavelli, Niccolo	15	507
	18	52
Magliabrecchi, Antonio	18	122
Mai, Angelo	18	138
Malaspina, Albertino	15	503
Manzoni, Alessandro	15	449
	15	512
	18	251
Marini, Giambattista	15	510
	18	291
Marsuppini, Carlo	2	193
Mazzini, Giuseppe	18	472
Mazzoni, Guido	18	473
Menendez Pidal, Ranion	18	629
Mercantini, Luigi	18	654
Metastasio, Pietro	18	711
Mezzofanti, Giuseppe Gaspardo	19	6
Michelangelo Buonarroti	15	508
	19	15
Milelli, Domenico	19	56
Molino-Colombini, Giulia	15	492
Molmenti, Pompeo Gherardo	19	329
Montanelli, Giuseppe	19	395
Monti, Vincenzo	15	511
	19	410
Morelli, Giovanni	19	447
Muratori, Ludovico	15	510
Negri, Ada	20	46
Niccolini, Giovan Battista	15	512
	20	309
Niccolò De'Niccoli	20	310
Nievo, Ippolito	15	512
	20	336
Novati, Francesco	20	467
Ojetti, Ugo	20	632
Pallavicino, Ferrante	21	269
Palmieri, Aurelio	21	215
Parini, Giuseppe	15	511
	21	299
Pellico, Silvio	21	487

Italy — cont'd	Vol.	Page
Petrarch, Francesco	11	552
	15	445
	15	499
	15	503
	15	505
	17	322
	21	674
Pindemonte, Ippolito	22	95
Pitocco, Limerno	11	414
Poliziano, Angelo	15	506
	22	309
Pontano, Giovanni Gioviano	22	350
Pontano, Gioviano	15	506
	22	350
Pontanus, Javianus	22	350
Prati, Giovanni	22	510
Pulci, Luigi	15	506
	22	794
Rossetti, Gabriele	23	709
Sannazzaro, Jacopo	15	506
	24	271
Sanudo, Marin	24	288
Sarpi, Pavlo	15	510
	24	305
Scandiano, Count of	4	164
Serao, Matilde	15	513
	24	577
Straparola, Giovanni Francesco	25	710
Tasso, Bernardo	26	280
Tasso, Torquato	15	509
	26	280
Tassoni, Alessandro	15	510
Tiraboschi, Girolamo	15	510
	26	644
Todi, Jacopone da	15	503
Trapassi, Pietro	15	511
	18	711
Trissino, Giovanni Giorgio	27	76
Uberti, Bonifazio degli	27	249
Vasari, Giorgio	15	508
	27	693
Vecchi, Augustus Victor	27	706
Verga, Giovanni	15	513
	28	15
Vico, Giambattista	15	510
	28	65
Vico, Giovanni	17	511
Zanella, Giacomo	29	686
Zappi, Giovanni Battista Felice	29	688

Drama

Città Morta, La	16	568
Curioso, Accidente, Un	27	268
Gioconda, La	16	574
Pastor Fido, Il	14	675

Biographies

Cossa, Pietro	8	38
Di Giacomo, Salvatore	9	117
Ferrari Paolo	11	137
Giacosa, Giuseppe	12	636
Maffei, Francesco Scipione	18	112
Niccolini, Giovanni Battista	20	309
Nota, Alberto	20	457
Pindemonte, Marchese	22	95
Zeno, Apostolo	29	699

SPAIN

Subjects

Alphonsine Tables	25	354
Catalan Literature	6	39
Catalan Renaissance	6	40
Catalán Movement	11	101

Spain — cont'd	Vol.	Page
Celestina, The	6	168
	23	633
Chiabrerism	13	46
Christian Woman, A	6	614
Cid, The	19	707
Cocked Hat, The	10	46
Columbina	7	342
Coplas De Manrique	7	650
Culturanos	13	46
Diana	9	69
	21	376
Diana Enamorada	21	376
Don Juan	9	250
Don Quixote	9	252
	24	614
Dulcinea Del Toboso	9	392
El Sombrero De Tres Picos	10	46
Exemplary Novels	10	636
Fábulas of Tomás De Iriarte	10	696
Golden Age	6	40
	25	338
La Barraca	16	567
La Familia De Alvareda	16	571
La Victoria De Junín	16	585
Life is a Dream	17	411
Literature, Spanish	25	353
Los Sueños	17	666
Mirror of Knighthood, The	19	222
Mystic City of God	1	241
Palmerin de Inglaterra	21	214
Palmerin of England	21	214
Pascual López	21	365
Periodical Literature	21	595
Poem of the Cid	19	708
	22	273
Romancero Del Cid	23	651
Spanish Ballads	25	355
Spanish Literature	25	353
Student of Salamanca, The	25	752

Biographies

Agreda Maria (Coronel) de	1	241
Aguilera, Ventura Ruis	1	268
Alarcon, Pedro Antonio de	1	310
Alarcon Y Mendoza, Don Juan Ruiz de	1	310
Aleman, Mateo	1	358
Alfonso the Wise	13	49
Alfonso V	6	40
Amadis De Gaula	1	460
Argensola, Bartolomé Leonardo de	2	195
Argensola, Lupercio Leonardo de	2	195
Avellaneda, Alfonso Fernandes de	2	672
Avellaneda Y Arteaga, Gertrudis Gomez de	2	672
Avila, Gil Gonzalez d'	2	679
Ayala, Adelardo Lopez de	2	683
Balaguer, Victor	3	65
	11	101
Balvas, Antonio	3	124
Barrantes Y Moreno, Vincente	3	275
Becquer, Gustavo Adolfo Dominguez	3	409
Benavente Y Rocamora, Enrique	3	500
Berceo, Gonzalo de	25	353
Bernat des Clos	6	39
Boscan, Almogaver Juan	4	285
Caballero, Fernán	5	114

Spain — cont'd	Vol.	Page
Calderon, Serafin Estebanez	5	187
Cañete, Manuel	5	499
Carlos, Areban	6	40
Castillejo, C. de	6	6
Cervantes Saavedra, Miguel de	6	228
Cienfuegos, Nicasio Alvarez de	6	673
Clavijo Y Fajardo, José	7	65
Duran, Augustin	9	416
Enriquez Gomez, Antonio	10	397
Ercilla Y Zuniga, Alonzo de	2	134
	10	469
Escosura, Patricio de la	10	497
Espinel, Vicente Martinez	10	503
Espronceda José de	10	505
	25	357
Esquilache, Don Francisco de Borja Y Aragón, Principe de	10	506
Estebanez, Calderon, Don Serafin	10	521
Faber, Cecilia Böhl von	5	114
Faria, Manoel Sevrim de	11	19
Faria Y Sousa, Manoel	11	19
Fastenrath, Johannes	11	51
Fernandez, Angel	11	129
Figueroa, Francisco de	11	203
Fitz Gerald, John Driscoll II	11	301
Fitzmaurice - Kelly, James	11	302
Forner, Juan Pablo	15	323
Gallego, Juan Nicasio	12	244
Garcilaso De La Vega	12	280
Gayangos Y Arce, Pascual de	12	348
Góngora, Luis de Góngora y Argote	13	46
	25	356
Gonzáles, Count Fernán	13	49
Granada, Fray Luis de	13	120
	25	356
Guevara, Luis Velez De	13	527
Guzmán, Fernán Pérez de	25	355
Hartzenbusch, Juan Eugenio	13	744
Heredia, José Maria	14	123
Herrero Y Rubira, Antonio Maria	14	144
Herrero Y Rubira, Luis	14	144
Huerta, Vicente Antonio García de la	14	474
Ibañez, Vicente Blasco	4	63
	14	615
Iriarte, Juan de	15	323
Iriarte, Tomas de	15	323
Isla, José Francisco de la	15	412
Jáurequi Y Aguilar, Juan Martínez de	15	753
Juan de Baena	16	226
Lafuente Y Zamalloa, Modesto	16	650
Laso De La Vega, Garcilaso	16	758
León, Fray Luis Ponce de	17	299
López De Ayala, Pedro	17	654
Luzán, Ignacio de	17	765
	25	356
Manrique, Angel	18	232
Manrique, Gómez	18	232
	25	354

Spain — cont'd	Vol.	Page
Manrique, Jorge	18	233
	22	233
	25	354
Manuel, Juan	25	354
Melendez Valdes, Juan	18	604
Mena, Juan de	18	619
	25	354
Mendoza, Iñigo López	25	354
Mesonero Romanos, Ramon	18	686
Montalván, Juan Perez de	19	383
Montemayor, Montemor Jorge	19	399
Mundoza, Diego Hurtado	18	627
Muñez De Arce, Don Gaspar	20	500
Ordónez De Montalvo, Garcí	20	770
Ortega, Juan de	21	11
Palacio Valdés, Armando	21	133
Pardo-Bazán, Emilia	21	296
Perez, Antonio	17	322
	21	575
Pérez Galdós, Benito	21	576
Pérez De Hita, Ginés	21	577
Pereda, José Maria de	21	574
Pidal, Ramon Ménedez	22	71
Polo, Gaspar Gil	22	324
Ponz, Antonio	22	353
Quevedo Y Villegos, Don Francisco de	23	87
Quintana, Manuel José	23	97
	25	357
Rioja, Francisco de	23	534
Rojas, Fernando de	23	632
Rosa, Francesco de Paula Martinez de	23	688
Rodríquez Y Fernández, Teodoro	23	623
Ruiz, Juan	23	763
	25	354
Santos, Francisco	24	287
Santillana, Inigo López de Mendoza, Marquis of	24	285
Toledo, Martínez de	25	355
Torres Naharro, B. de	26	710
Trueba Y Cosío, Telesforo De	27	103
Valera, Juan	25	358
Valera Y Alcala Galiano, Juan	27	646
Vidal, Ramón	6	39
	28	77
Villena, Enrique de	25	354
Zorilla Y Moral, José	25	357
	29	734

Drama

Burlador De Sevilla, El	10	43
Electra	10	89
Gran Galeoto, El	10	43
Intereses Creados, Los	17	666
Mágico Prodigioso, El	29	470
Mayor of Zalamea, The	18	469
Poema del Cid	25	353
Star of Seville, The	25	490
Tanto 'por Ciento	17	654
Wonder-Working Magician, The	29	470

Biographies

Arce, Múñez de	25	357
Avellaneda, Gertrudis de	2	672
	25	357
Ayala, López de	2	684
	25	357

Spain — cont'd	Vol.	Page
Baus, Tamayo y	25	357
Benavente, y Martinez, Jacinto	3	500
	17	666
	24	565
Breton, de los Herreros, Don Manuel	4	472
Burgos, Francisco Javier de	5	41
Calderón, De La Barca, Pedro	5	187
Castro Y Bellvis, G	6	21
Cervantes Saavedra, Miguel de	6	228
	25	355
Cruz, Cano y Olmedilla, Ramon Francisco de la	8	264
	25	357
Cueva, Juan de la	8	293
	25	355
Diamante, Juan Battista	9	60
Encina, Juan del	10	315
	25	355
Frontaura, Vásquez Carlos	12	122
Gomez de Avellaneda y Arteaga, Gertrudis	13	41
Herreros, Manuel Bretón de	14	145
	25	357
Iriarte, Tomas de	15	323
	29	670
Juglares	25	353
Lope de Vega	24	614
	27	718
López De Ayala, Adelardo	17	654
Manrique, Gómez	18	232
Moratín, Leandro Fernández de	19	439
	25	356
Moreto Y Cabaña, Augustin	19	447
Münch - Bellinghausen, Eligius Franz Joseph, Freiherr von	19	563
Muñez De Arce, Don Gaspar	20	500
Naharro, Torres	25	355
Olmedilla, Ramon Francisco de la Cruz Cano	20	668
Pérez Galdós, Benito	21	576
Rivas, Duque de	23	547
	25	357
Rojas y Zorrilla, Francisco de	23	683
Rosa, Martinez de la	23	688
	25	357
Rueda, Lope de	23	754
	25	355
Solis y Ribadeneira, Antonio de	25	241
Tamayo y Baus, Manuel	26	233
Téllez, Gabriel	26	401
Vega Carpio, Felix Lope de	27	718
Yriarte, Tomas de	29	670
Zamora, Antonio de	29	685
Zarate, Antonio Gil Y	29	689

RUSSIA

Subjects

Anna Karenina	1	715
	26	676
Annals of a Sportsman	1	715
Chronicle of Kiev	24	19
Cossacks, The	8	39
Crime and Punishment	8	193

Russia — cont'd	Vol.	Page
Dead Souls	8	527
Dying Tasso, The	24	20
Fathers and Children	11	55
Fishermen, The	11	287
Hero of Our Time, A	14	135
House of Gentlefolk, A	17	545
Igor's March, Song of	14	673
Lear of the Steppes, A	17	179
Literature, Russian	24	19
Napoleon and the Russian Campaign	28	682
Nest, The	17	545
Nest of Nobles, A	17	545
Ode to God, The	20	579
Otsui i Dyéti	11	55
Periodical Literature, Russian	21	594
Power of Darkness, The	22	485
Precipice, The	22	526
Realism and Naturalism in Russian Literature	23	258
Resurrection	23	427
Russian Literature	24	19
Sea Gull, The	24	473
Smoke	25	135
Thousand Souls, A	22	117
Torrents of Spring	26	709
Underground Russia	27	272
Virgin Soil	28	116
Word of Igor's Armament, The	24	19
War and Peace	28	682

Biographies

Achsharumov, Nikolei Dmitriyevich	1	91
Afanasiev, Aleksander Nikolaievich	1	205
Afanasiev, Aleksander Stepanovich	1	205
Aksakov, Konstantin Sergeievich	1	296
Aksakov, Sergei Timofeyevich	1	296
Albov, Mikhail Nilov	1	339
Almazov, Boris Nikolayevich	1	432
Amphiteatrov, Alexander Valentinovitch	1	589
Andreyev, Leonid Nikolaevich	1	676
Apukhtin, Aleksei Nikolayevitch	2	103
Artsybasher, Mikhail Petrovitch	2	370
Averehenko, Arkadi Timofeyevich	2	674
Balmont, Kónstantin Dmitriyévitch	3	111
Baratynskii, Evgenii Abramovich	3	229
Barantzevich, Kazimir Stanislavovich	3	228
Bashkirtseff, Marie	3	306
Belinsky, Vissarion Grigorevitch	3	469
Berezin, Ilya Nikolayevitch	3	542
Bestushev, Alexander Alexandrovitch	3	588
Bezsonov, Peter Alexeyevitch	3	607
Blok, Alexander Alexandrovich	4	103
Boborykin, Piotr Dmitrievich	4	188
Bogdanovich, Ippolit Fedorovich	4	154
Bulgarin, Faddéĭ Venediktovich	5	6
Cahan, Abraham	5	145

Russia — cont'd	Vol.	Page
Chekhoff, Anton Pavlovitch	6	376
Dal, Vladimir Ivanovitch	8	413
Derzhavin, Gabriel Romanovitch	8	717
Dobrolyubov, Nikolai Alexandrovich	9	215
Dorn, Johann Albrecht Bernhard	9	266
Dostoyevsky, Feodor Mikhailovitch	9	271
Dragomanov, Mikhail Petrovitch	9	294
Druzhinin, Alexander Vasilévich	9	356
Fählmann, Friedrich Robert	10	711
Fet (Shenshin) Afanasy Afanasevich	11	157
Garshin, Vsevolod Mikhailovich	12	299
Gogol, Nikolai Vassiljevitch	13	7
Goncharóf, Iván Aleksandrovitch	13	44
Gordon, Leon	13	64
Gorky, Maxim	13	66
	24	22
Gretch, Nikolai Ivanovitch	13	462
Grigorovitch, Dmitri Vasilyevitch	13	472
Grot, Yakob Karlovitch	13	489
Joukovsky, Vasily Andreivitch	16	216
Kantemir, Antiokii Dmitriyevitch	16	306
Kapnist, Vasilii Yakovlevitch	16	307
Karamzin, Nichplas Mikhailovitch	16	309
Kheraskov, Mikhail Matveevitch	16	391
Khvashtschinskaya, Nadezha Dmitrievna	16	396
Kolzov, Alexej Vasiljevitch	16	513
Korolenko, Vladimir Galaktionovitch	16	529
Kostomarov, Nikolai Ivanovitch	16	533
Kotliarevski, Ivan Petrovitch	16	534
Kototshikhin, Gregory	16	535
Krasicki, Ignacy	16	537
Kravchinski, Sergius Michaelovitch	25	622
Krestovski, V.	16	542
Krusenstern, Adam Johann von	16	549
Krylov, Ivan Andreievitch	16	549
Lamansky, Vladimir Ivanovitch	16	665
Lazhechnikov, Ivan Ivanovitch	17	160
Lazetchnikov, Ivan Ivanovitch	17	160
Lazjetjinikov, Ivan Ivanovitch	17	160
Lérmontof, Mikhail Yúryevitch	17	312
Lomonosov, Mikhail Vasilievich	17	618
Merezhkovski, Dmitri Sergeyevich	18	672
Mikhailovski, Nikolai Konstantinovitch	19	52
Mikhailov, Mikhail Larionovitch	19	52
Nekrasov, Nikolai Alexeievitch	20	63
Nikitin, Ivan Savitch	20	344
Novikoff, Nikolai Ivanovitch	20	478
Pisemski, Alexei Feofilaktovitch	22	117
Pushkin, Alexander	23	32
Pyeshkoff, Maximovitch	13	66
Pypin, Alexander Nicolaevitch	23	39
Radischev, Alexander Nikolaievich	23	126
Ralston, William Ralston Shedden	23	199
Schenschin, Afanassij Afanasjevitch	24	368
Sologub, Feodor	25	242
Stanyukovitch, Konstantin Mikhailovitch	25	488
Stepniak, Sergius	25	622
Tchekhov, Anton Pavlovitch	6	376
	26	305
Teternikov, Kuzmitch Theodore	25	242
Tolstoi, Leo	24	21
	24	24
	26	676
Turgénief, Iván Sergéyevitch	26	769
	27	177
Yadrintsef, Nikolai Michailovitch	29	665
Zagoskin, Mikhail Nikolaievitch	29	681
Zhukovskii, Vasilii Andreevich	29	707

Drama

Anathema	1	626
Cherry Orchard, The	6	418
Fruits of Culture, The	12	138
Night's Lodging, A	20	341
Russian Drama	24	22
Storm, The	25	698

Biographies

Andreyev, Aleksandr Nikolaevich	1	675
Chekhov, Anton P.	24	23
	26	305
Griboyedov, Alexander Sergyeevich	13	467
Khomyakoff, Aleksey Stepanovitch	16	394
Kniazhnin, Jakov Borisovich	16	479
Ostrovski, Alexander Nikolayevitch	21	37
	24	23
Sumarokov	24	22

OTHER COUNTRIES

Subjects

Abraham's Sacrifice	28	639
Adam Homo	1	117
Alexander, Romance of	1	371
Arabian Nights, The	2	121
	23	586
Arabic Literature	2	126
	24	550
Ardhamâgadhi	22	509
Atis and Camilla	26	123
Babes in the Wood, The	6	485
Ballad, Danish	8	459
Ballad literature, Swedish	26	122
Bankruptcy, A	3	148
Basho	15	688
Baz Nameh	27	201
Bhartrihari	3	608
Bhavabhûti	3	608
	24	275
Bidpai	3	687
Birth Stories	3	688
Book of the Dead	4	223
	10	18
	14	175
	14	700
Book of the Wars of the Lord	4	233
Celtic Renaissance	9	309
Chandogya	6	287
Children in the Wood, The	6	485
Children of the Soil	6	485
Chocim War, The	22	306
Civilization in Europe	7	27
Cornish literature	6	183
Cortês, Letters of	18	785
Danish literature	8	459
Dharmaśastra (metrical law books)	9	53
Dharmasutra (liturgical literature)	9	53
Distinction between Vedic and Sanskrit	24	273
Divan	9	197
Doll's House, A	9	237
Doomed Prince	10	18
Eddas, The	9	575
Elder Edda	14	630
	19	708
Ensign Stal's Tales	10	398
Ensign Stols Tales	26	124
Epic Poetry, Indian	24	274
Erics Chronicle	26	122
Fables	24	275
Fables of Bidpai	3	687
Fairy Tales	24	275
Andersen's	10	722
Family Sagas	14	632
Five Classics	6	557
Flateyjarbok	11	335
Flemish literature	11	346
Folksongs, Polish, collections of	22	307
Frithjof's Saga	12	113
Fridthjof's Saga	14	632
Gesta Romanorum	12	627
Gilgamesh Epic	12	653
Golden Age of the Sagas	14	631
Gösta Berning, The Story of	13	75
Greek Marseillaise, The	23	639
Gunnar Dahlstjerna	26	122
Haikai Style	15	688
Heian Era	15	687
Hermetic Books	14	132
Historical Sagas	14	631
Hitomaru	15	687
Hokku Style	15	688
Home, The	14	332
Hymn to Usertesen III	10	18
Icelandic literature	14	630
Icelandic Sagas	14	631
Ingjald Illroda	26	123
Iridion	15	823
Japanese literature	15	685
Japanese poetry	15	687
Jataka	3	687
Kalevala	16	282
	19	708
Kâlidâsa	24	275
Kalilag and Damnag	3	687

Other Countries — cont'd	Vol.	Page
Kāvyas	24	275
King of Confucius	6	557
King Piyadassi, Edicts of	15	157
King Rene's Daughter	16	439
Kitab Muhbarak	19	300
Knights of the Cross	16	485
Kojiki	24	716
Königinhof Collection	8	379
Kordyan	16	523
Komachi	15	687
Kraszewski	22	308
Landtaking Book	14	631
Literature — Arabic	2	126
Argentine	17	15
Armenian	2	270
Babylonian	2	436
Bolivian	17	21
Breton	4	472
	6	183
Celtic	6	180
Chilean	17	17
Colombian	17	21
Cornish	6	183
	7	714
Czech	8	379
Danish	8	459
Ecuadorian	17	22
Egyptian	10	16
	14	175
Finnish	11	225
Flemish	11	346
Hungarian	14	504
Icelandic	14	630
India	15	21
Iranian	15	307
Irish	6	180
Japanese	15	685
Jewish	16	70
Jewish, Modern	16	85
Latin American	17	13
Lettic	17	324
Manx	6	182
Mexican	18	784
Mohammedan	19	299
Netherlands	20	91
Norwegian	20	441
Persian	21	627
Peruvian	17	20
Polish	22	305
	25	90
Porto Rican	22	415
Portuguese	22	415
Prakrit	22	508
Provencal	22	416
Punjabi	23	22
Ragusan	24	589
Romaic	23	639
Rumanian	23	769
Samaritan	24	219
Sanskrit	24	273
Scottish Gaelic	6	182
	24	447
Semitic	24	548
Serbian	24	598
Singhalese	25	34
Swedish	26	122
Turkish	27	200
Ukrainian	27	258
Uruguayan	17	18
Venezuelan	17	23
Welsh	6	182
Literary Vehicle of Buddhism	22	508
Lundi Alphabet	23	22
Lusiads, The	17	749
	19	708
Lyric poetry	24	275
Mabinogion, The	6	183
	18	2

Other Countries — cont'd	Vol.	Page
Mahabharata	14	195
	18	132
	19	708
	22	509
Man-Yoshu	18	194
Manyoshiu	18	194
Maxims of Ptah-Hotep	4	224
Minæan inscriptions	24	550
Misnad	19	299
Mitsune	15	687
Musannaf	19	299
Musnads	19	299
Narihira	15	687
Necklace of Pearls	2	126
Netherlands, language, literature and science of	20	91
Niti-çāstras	24	275
Okura	15	687
Oldest Hebrew Documents	24	549
Padmâwat	14	198
Panchatantra	3	687
Pan Tadeusz	21	226
Papyrus Documents Egyptian	21	270
Pehlevi	21	472
Pilot and His Wife, The	22	89
Pilpai	3	687
Polish literature	22	305
Prakrit languages and literature	22	508
Precepts of Ptah-hotep	7	26
Prisse Payprus of Proverbs	10	18
Provencal literature	22	416
Punjabi language and literature	23	22
Quo Vadis	23	100
Quran	24	550
Ramayana	14	195
	23	199
	24	274
Ravânyavâha	22	509
Red Riding Hood, Little	23	282
Religious Poems, Icelandic	14	631
Renka Style	15	688
Reynard the Fox	23	451
Rig Veda	23	517
Rippi Tikki Tac	23	523
Roman de Renart	23	451
Ruins, The Forty-seven	23	721
Rubâiyât of Omar Khayyam	23	738
Sab	24	76
Sæmund's Edda	14	630
Saga of the Volsungs	19	708
Sakuntala	24	175
Sanskrit literature	24	273
	24	274
Sattasai	22	509
Shipwrecked Sailor	10	18
Scottish Gaelic literature	24	447
Serbian national poetry	24	590
Shofutai Style	15	688
Shunzei	15	687
Sigurd the Volsung	19	708
Sin of Joost Avelingh, The	25	39
Skald	25	65
Snorre's Edda	14	630
Sojo Henjo	15	687
Silvas Americanas	25	11
Soofeeism	21	627
Story of the Sekhti	10	18
Story of Sanehat	10	18
Sturlungasaga	14	632
Swedish literature	26	122
Symeon Seth	3	688
Synnöve Solbakken	26	175

Other Countries — cont'd	Vol.	Page
Taking of Joppa, The	10	18
Two Brothers, The	10	18
Teaching of Amenemhat	10	18
Teaching of Dauf	10	18
Tell-el-Amarna Letters	15	156
Thousand Nights and a Night, The	2	121
Valaeritis of Corcyra	23	640
Vilkina Saga	23	646
Westcar Papyrus of Tales	19	18
Wonderful Lamp, The	1	307

Biographies

	Vol.	Page
Aarestrup, Emil	1	4
Aasen, Ivar Andreas	1	5
Abbas of Merv	11	230
Abd-allah ibn al-Mogaffa	3	687
Aberigh-Mackay, George Robert	1	39
Abrahams, Israel	1	48
Abu-Hassan	1	55
Abu'l Ala, Al Ma'arri	1	56
Abu'l Atahiya	1	56
Abu'l Faraj	1	56
Abulfeda, Ismail Ibn Ali	1	57
Abulquasim Hasan	11	231
Abu Tammam	1	56
Acuña de Figueroa, Francisco	1	113
Acuna, Manuel	1	113
Adi ibn Zaid	2	126
Adler, Felix	1	142
Aguilar, Grace	1	268
Alcoforado, Marianna	1	345
Aldana, Ramon	1	352
Alencar, Jose Martiniano de	1	358
Alecsandri, Vasile	1	357
Aléxandri, Vasile	1	357
Ali Baba	1	399
Ali Ibn Al Husain Ibn Mohammed Ibn Ahmed Al Kurashi Al Is Fahani	1	56
Almqvist, Karl Jonas Ludvig	1	433
Alvarado, Tomás Antonio	1	459
Ambros, August Wilhelm	1	473
Amenemhat	10	16
Ameny	10	16
Amud-ed-Deen	27	201
Anatoli, Jacob	1	627
Andersen, Hans Christian	1	658
Arai Hakuseki	2	131
Arany, Janos	2	133
Araucana, La	2	134
Araujo Porto-Alegre, Manoel de	2	137
Arboleda, Julio	2	145
Arentzen, Kristian August Emil	2	191
Ari Thorgilsson	2	233
Arnold, William Rosenzweig	2	319
Arrebo, Anders Christensen	2	327
	8	460
Arwidsson, Adolf Ivar	2	371
Asbjörnsen, Peter Kristen	2	377
Ashi, Rabbi	2	385
Asmai	2	401
Asnyk, Adam	2	401
Assemani, Stephen Ephodius	2	415
Aston, William George	2	448
Asvalayana	2	484

Other Countries—cont'd	Vol.	Page
Attâr, Ferid Eddin	2	520
Atterbom, Peter Daniel Amadeus	2	521
Auersperg, Anton Alexander	2	539
Azevedo, Manoel Antonio Alvares de	2	688
Azulai, Hayim David	2	692
Babcock, Winnifred Eaton	3	5
Babr	27	201
Bacher, Wilhelm	3	17
Bacon, Alice Mabel	3	19
Bascanyi, Janos	3	27
Badrulbadur, Princess	3	36
Bærle, Kaspar Van	3	257
Baggesen, Jens	3	41
Bahr, Hermann	3	47
Bahrâm Gôr	21	627
Baiter, Johann Georg	3	57
Bajza, Joseph	3	58
Bake, Jan	3	58
Baki	3	63
	27	201
Balucki, Michael	3	124
Ban, Matija	3	130
Bang, Hermann Joachim	3	141
Baraga, Frederic	3	227
Barlæus, Kaspar Van	3	257
Bartsch, Adam von	3	298
Basilio De Gama, José	3	310
Bauernfeld, Eduard von	3	349
Baumgartner, Alexander	3	351
Beck, Karl	3	403
Beets, Nicolaus	3	442
Bekker, Elizabeth	3	451
Bekr, Abu	27	201
Belcikowski, Adam	3	453
Bellman, Karl Mikael	3	489
	26	123
Bello, Andrés	3	489
Beöthy, Zoltán	3	583
Bergaigne, Abel	3	543
Bergh, Pieter Theodor Helvetius van den	3	546
Bergsol, Jorgen Vilhelm	3	547
Bernardes, Diego	3	570
Bernardo Balbueno	18	785
Bernhard, Karl	24	122
Berzsényi, Daniel	3	584
Bettelheim, Anton	3	595
Biart, Lucien	3	611
Bielowski, Augustus	3	690
Bijns, Anna	3	700
Bilderdijk, Willem	3	701
Biot, Edouard Constant	3	722
Biruni, Abu Raihan Muhammed ibn Ahmed	4	11
Bitter, Arthur	4	24
Bitzius, Albert	4	26
Björnson, Björnstjerne	4	29
Blicher, Steen Steensen	4	81
Bloomfield, Maurice	4	116
Blyden, Edward Wilmot	4	133
Bogaers, Adriaan	4	153
Bojer, Johan	4	177
Boner, Ulrich	4	213
Bonstetten, Karl Victor von	4	222
Börjesson, Johan	4	275
Bosch, Hieronymus de	4	286
Brandes, George Morris Cohen	4	411
	8	462
	17	512
Brants, Victor Léopold Jacques Louis	4	417
Bredahl, Christian Hvild	4	458

Other Countries—cont'd	Vol.	Page
Bremer, Fredrika	4	464
Bretschneider, Heinrich Gottfried von	4	472
Brink, Jan Ten	4	542
Brodzinski, Kazimierz	4	573
Burckhardt, Jakob	5	33
Burhan-ed-Deen	27	201
Busbecq, Ogier Ghislain de	5	71
Busbequius, Ogier Ghislain de	5	71
Cabestaing, Guillaume de	5	117
Cammaerts, Emile	5	266
Camoens, Luiz Vaz de	5	266
Camões, Luis Vaz de	5	266
Carmen Sylva	10	247
Carpio, Manuel	5	660
	18	288
Carten, Emilia Smith Flygare	5	614
Carteret, Antonio Alfred Desiré	5	679
Casal, Julián del	5	693
Casaubon, Isaac	5	696
Casaubon, Meric	5	696
Castelein, M. de	6	3
Castellobranco, C.	6	6
Castilho, A. F.	6	6
Castillo, Bernal Diaz del	18	783
Castro, A.	6	19
Castrén, M. A.	6	19
Catalá, V.	6	36
Cathrein, Victor	6	102
Cazwini, Zacharia Ben Mohammed	6	157
Cech, Svatopluk	6	159
Celakovsky, Frantisek Ladislav	6	165
Celakovsky, Ladislav	8	381
Chatterjee, Bankim Chandra	15	22
Chattopadhyaya, Bankim Chandra	6	360
Chodzko, Jacob Leonard	6	582
Christopulous, Athanasios	6	630
Clesse, Antoine	7	92
Comeniûs, Ján Amos	8	380
Conscience, Hendrik	7	537
Coornhert, Dirck Volckertsen	7	644
Corrodi, August	8	20
Cort, Frans de	8	25
Cortés, José Domingo	8	26
Cosbuc, George	23	771
Cremer, Jacobus Jan	8	178
Cruz, Sister Juana Inez de la	18	788
Dahlgren, Karl Fredrik	8	394
Dahlstjerna, Gunno	8	395
D'Alviella, Count Goblet	8	424
Dass, Peder	8	489
Dass, Peter	8	489
Danichich, Dyuro	8	451
Daničić, Serbian Djuro	8	451
Darío, Rubén	8	476
Decker, Jeremias de	8	603
De Coster, Charles Théodore Henri	8	571
De Groot, Hugo	13	490
Deken, Agathe	8	603
Dekker, Eduard Douwes	8	603
Dekker, Jeremias de	8	603
Delaet, Johan	8	605
Delnonte y Tejada, Antonio	8	624
Delolme, Jean Louis	8	624
De Rosny, Léon Louis Lucien Prunol	8	715
De Sahagun	18	785

Other Countries—cont'd	Vol.	Page
Dias, Antonio Gonçalvez	9	72
Diaz Del Castillo, Bernardo	9	76
Dictys of Crete	9	90
Dietrichson, Lorentz Henrik Segelcke	9	105
Djâmi	21	629
Djelal ed-Deen Rûmi	21	628
Dobrovsky, Joseph	8	380
Döczi, Ludwig von	9	218
Dora D'Istria	9	263
Dozy, Reinhart Pieter Anne	9	290
Drachmann, Holger Henrik Herholdt	9	291
D'sa', Manoel Francis Xavier	9	366
Duram, José de Santa Rita	9	416
Durão, José de Santa Rita	9	416
Dutt, Madhusudan	15	22
Dutt, Michael Madhusudan	9	439
Dutt, Romesh Chunder	9	439
	15	23
Dutt, Toru	9	439
Ebert, Karl Egon	9	520
Ebner-Eschenbach, Baroness Marie von	9	521
Eça De Queiroz, José Maria	9	521
Echeverria, Esteban	9	541
Edgren, Anne Charlotte Leffler	9	583
Eckloud, Georges	9	712
Egaña, Juan	9	721
Egil Skallagrimsson	9	729
Egilsson, Sveinbjörn	9	729
Elizabeth, Pauline Ottilie Luise	10	247
Emants, Marcellus	10	272
Eminescu, Michael	10	295
Eminescu, Mihail	23	771
Empáran, Diego de	10	299
Enveri	21	628
Eötvös, Joseph, Baron von	10	409
Erben, Karl Jaromir	10	469
Erdélyi, János	10	470
Erpenius, Thomas	10	484
Eslava, Fernán González de	18	785
Estlander, Carl Gustav	10	524
Etlar, Carit	10	555
Evald, Herman Frederik	10	588
Evald, Johannes	10	588
	10	614
Ewald, Carl	10	613
Fahlcrantz, Christian Erik	10	711
Falster, Christian	11	1
Farîd Ud-Din Attar	11	20
Fausböll, Michael Viggo	11	65
Fáy, Andreas	11	71
Fazli	27	201
Feisi, Abul Feis ibn Mubârak	11	97
Feith, Rhijnvis	11	97
Ferid ed-Deen Attar	21	628
Fernandez De Lizardi José Joaquin	11	129
	18	788
Ferreira, Antonio	11	138
Feuchtersleben, Ernst	11	159
Fibiger, Johannes Henrik Tauber	11	165
Figueroa, Francisco Acuña de	11	203
Finne, Gabriel	20	443

Other Countries—cont'd	Vol.	Page
Firdausi	11	230
Firdusi	11	230
	21	628
Fletcher, Julia Constance	11	349
Fogarassy, János	11	412
Foglar, Ludwig	11	413
Frankl, Ludwig August	12	7
Franzos, Karl Emil	12	20
Frida, Emil Bohusch	12	102
Frischmann, David	12	111
Fröding, Gustaf	26	124
Fröhlich, Abraham Emanuel	12	119
Fukuzawa, Yukichi	12	151
Gaál, József	12	213
Gallardo, Aurelio Luis	12	241
Gama, José Basilio da	12	259
Ganghofer, Ludwig	12	273
Garçao, Pedro Antonio Correa	12	280
Gaszynski, Konstanty	12	335
Gebauer, Jan	12	351
Geel, Jacob	12	355
Geijer, Eric Gustaf	12	358
Geijerstam, Gustaf af	12	359
Geivason, Glum	14	631
Gessner, Salomon	12	627
Ghica, Elena	9	263
Ginsburg, Christian David	12	659
Girart De Rossilho	12	665
Gjellerup, Karl	12	670
Goldschmidt, Meier Aaron	13	32
Goldziher, Ignaz	13	37
Gonçalves Diaz, Antonio	13	43
Gonzaga, Thomaz Antonio	13	48
Gorostiza, Manuel Eduardo de	18	788
Gottheil, Richard James Horatio	13	82
Gotthelf, Jeremias	4	26
Gras, Felix	13	152
Greyson, Emile	13	467
Grierson, George Abraham	13	469
Griffis, William Elliot	13	470
Griffith, Ralph Thomas Hotchkin	13	471
Grillparzer, Franz	13	473
Grisebach, Eduard	13	481
Gross, Ferdinand	13	487
Grotius, Hugo	13	490
Grundtvig, Nikolai Frederic Severin	13	504
Grundtvig, Svend Hersleb	13	504
Güell y Rentê, José	13	523
Gundulic, Jovan	24	589
Gundulich, Ivan	13	550
	24	589
Gwilym, David Ap	8	502
Gyllembourg-Ehrensvärd, Thomasine Christine	13	587
Haberstich, Samuel	4	24
Hafiz	21	629
Häfiz	13	613
	24	736
Haller, Albrecht von	13	647
Hallström, Per	13	649
Halm, Friedrich	13	650
Hamsun, Knut	13	670
	20	443
Hanka, Wenceslas	8	381
Harant, Christopher	8	380
Hätim Tâï	21	629
Haverschmidt, Francis	13	766
Havlíček, Karel	13	767
Hearn, Lafcadio	14	35
Heidenstam, Verner von	14	70
Hertzka, Theodor	14	153
Hirth, Friedrich	14	204
Hjörleifsson, Einar	14	299
Hofmannsthal, Hugo von	14	310
Holberg, Ludwig	14	314
Holcombe, Chester	14	315
Hopkins, Edward Washburn	14	371
Hussein Wâïs Kâshifi	21	629
Huygens, Constantin	14	533
Hymans, Solomon Louis	14	595
Ibn Kutaiba, Qutaiba	14	617
Ibn Mokaffa	21	472
Ibsen, Sigurd	14	620
Icazbalceta, Joaquin Garcia	14	620
Imber, Naphtali Herz	14	708
Ingemann, Bernhard Severin	15	128
Isaaks, Jorge	15	405
Ixtlilxochitl, Fernando de Alba	15	569
Jami, Nur-Ed-Din Abd-ur-Rahman Ibn Ahmad	15	610
Janitschek, Hubert	15	613
Janow, Matthias von	15	614
Jans, Jansen Enikel	15	614
Janson, Kristofer N	15	616
Japiks, Gijisbert	15	748
Jehoash	16	8
Jirásek, Alois	16	147
Joel, Rabbi	3	688
Jokai, Maurus	16	191
Jonge, Johannes Cornelius de	16	204
Josika, Miklós, Baron	16	214
Jovanović, Jovan	16	224
Judah, Ben-Samuel	16	229
Jungmann, Jozef Jakob	16	249
Jüngmann, Joseph	8	380
Juste, Theodore	16	263
Kaab Ibn Zuhair	16	273
Kaalund, Hans Vilhelm	16	274
Kaboûs	21	628
Kaczkowski, Zygmunt	16	275
Kaltenbrunner, Karl Adam	16	286
Kamal-Ud-Din, Ismail Isfahani	16	286
Kampen, Nikolaas Godfried van	16	288
Karadzic, Vuk Stefánovic	16	307
Karpinski, Franciszek	16	311
Kellgren, Johan Hendrik	16	341
Kemény, Zsigmond, Baron	16	348
Kern, Hendrick	16	379
Kertbény, Karl Maria	16	381
Kervyn de Letten Hove, Joseph Marie Bruno Constantin	16	382
Key, Ellen (Karolina Sofia)	16	385
Khalfah, Hadja	27	201
Kiami	27	201
Kielland, Alexander Lange	16	407
Kiesewetter, Raphael Georg	16	408
Kirschner, Lola (Aloysia)	16	460
Kisfaludy, Alexander (Sandor)	16	460
Kiss, Josef	16	462
Klonowicz, Sebastian-Fabian	16	474
Kochanowski, Jan	16	505
Kölcsey, Ferencz	16	511
Kollar, Jan	16	512
Kollar, John	8	380
Komènsky, Ján Amos	8	380
Kompert, Leopold	16	513
Kondratowicz, Ludvik Vladislaw	16	514
Korais, Adamontios	23	640
Kotaiba, Qutaiba	14	617
Krasinski, Zygmunt	16	538
Kraszewski, Josef Ignacy	16	538
Kukuljevic-Sakcinski, Ivan	16	553
Kurth, Godefroid	16	560
Kvíčala, Jan	16	563
La Fare-Alais, Christophe-Valentin, Marquis of	16	571
Lagerlof (Ottilia Lovisa), Selma	16	651
	26	124
Lambros, Spyridion	16	675
Lami	27	201
Lammens, Henri	16	677
Landesmann, Heinrich	16	701
Landstad, Magnus Brostrup	16	712
Lange, Thor Næve	16	718
Lange, Thomas	16	718
Lassen, Christian	16	758
Lebansohn, Abraham Bär	17	207
Lebensohn, Micah Joseph	17	207
Leeser, Isaac	17	230
Legge, James	17	242
Leitner, Gottlieb Wilhelm	17	274
Lembcke, Christian Ludvig Edvard	17	278
Lenau, Nikolaus	17	284
Lennep, Jacob van	17	286
Lenngren, Anna Maria	17	286
Lenström, Carl Julius	17	291
Leopold, Karl Gustaf af	17	306
Lie, Jonas Lauritz Edemil	17	404
Lobo, Francisco Rodrigues	17	553
Lönnrot, Elias	17	649
Lopez y Planes, Vicente	17	655
Lorm, Hieronymus	16	701
Ludwig, Salvator von Toscana	17	723
Luzac, Jean	17	765
Maartens, Maarten	18	1
Mabuchi	18	3
Macedo, Joaquim Manoel de	18	43
Macedo, José Agostinho de Padre	18	43
Mácha, Charles Ignace	8	381
	18	51
Madách, Emerich or Imre	18	93
Maeterlinck, Maurice	11	666
Magalhaes, Domingos José Goncalves	18	112
Maitin, José Antonio	18	152
Malabari, Behranji	15	23
Malczewski, Antoni	18	164
Manetho	18	208
Manetho Sebennyta	18	208
Mansilla De Garcia, Eduarda	18	236
Manzano, Juan Francisco	18	251
Mapu, Abraham	18	261
Marmol, José	18	305
Marquez, José Arnaldo	18	310
Marulic, Marko	18	344
Margolis, Max Leopold	18	281
Masaryk, Thomas Garrigue	8	381
	18	374
Mendes Leal Da Silva, José	18	626

Other Countries—cont'd	Vol.	Page
Mendive, Rafael Maria de	18	627
Mesquita, Salvador de	18	690
Messenius, Johan	26	122
Meyer, Conrad Ferdinand	19	1
Mickiewicz, Adam Bernard	19	32
Michael, Attaliates	19	11
Michaëlis, Karin	19	13
Michaëlis, Sophus	19	13
Milanés y Fuentes, José Jacinto	19	54
Milkowski, Sigismond	19	109
Milkowski, Zygmunt	19	109
Minor, Jakob	19	209
Mistral, Frédéric	19	262
Mitra, Rajendra Lala	19	272
Moe, Jörgen Ingebretsen	19	290
Moreno, Rosas	18	790
Morganwg, Iolo	29	339
Morosini, Andrea	19	472
Mota-Padilla, Matias de la	19	510
Muhammad ad-Din	13	613
Müller, Johannes von	19	558
Munch, Peter Andreas	19	563
Mutanabbi	19	655
Nabi	27	201
Nakhshebi	21	629
Nasr-i-Chosroes	21	628
Navarrete, Manuel	18	788
Naville, Edouard Henri	20	15
Nefi	27	201
Negruzzi, Jacob	20	56
Negruzzi, Konstantin	20	57
Nemcová, Bozena	20	69
Nicander, Karl August	20	302
Nicetas Acominatus	20	311
Nicole, François Léon Etienne	20	328
Niemcewicz, Julian Ursin	20	334
Nisâmi	21	628
Nizami	20	380
Noguchi, Yone	20	391
Obradović, Bositej	24	589
Obradovich, Dositéy	20	544
Obstfelder, Sigbjörn	20	554
Oliveira Martins, Joaquim Pedro de	20	665
Olmedo, José Joaquin	20	669
Omar Khayyam	20	680
	21	627
Ona, Pedro de	20	687
Onkelos	20	691
Orgaz, Francisco	20	793
Ossian-Nilsson, Karl Gustaf	21	24
Päivärinta, Pietari	21	132
Palm, Johann Philipp	21	210
Palma, Ricardo	21	211
Paludan-Müller, Frederik	21	220
Peixoto, Ignacio José de Alvarenga	21	475
Pentaur	21	555
Pérez De Zambrana, Luisa	21	578
Perez, Isaac Loebush	21	576
Pérez, Pedros Ildefonso	21	576
Perles, Joseph	21	601
Pesado, José Joaquin de	21	653
Petőfi, Sandor (Alexander)	21	673
Peton, Sandor (Alexander)	21	673
Pictet, Adolphe	22	70
Plácido	18	786
Postl, Karl Anton	24	486
Potvin, Charles	22	459
Pram, Christian Henriksen	22	510
Priscian	22	601
Psellos, Michael	5	110
Radicevic, Branko	24	590
Rai Sanyo	23	185
Ramírez, Juan Pérez	18	785
Rask, Rasmus Christian	23	220
Recke, Ernst von der	23	270
Reshid Watwât	21	628
Reymont, Wladyslaw Stanislaw	23	451
Rhigas of Velestinos	23	639
Rhys, Ernest	23	480
Ribeiro, Bernardin	23	483
Ribeiro-Ferreira, Thomas Antonio	23	483
Rizal, José	23	556
Rocha Pitta, Sebastiano	23	587
Rod, Edouard	23	618
Rodríguez Galván, Ignacio	23	624
Rodrigues, José Ignacio	23	623
Rosegger, Peter	23	696
Roumanille, Joseph	23	721
Rubes, Jan	8	381
Rudagi, Farideddin Mohammed	23	751
Rudel, Jaufré	23	752
Rûdaki	21	628
Runeberg, Johan Ludvig	23	774
	26	124
Runices, Johan	26	123
Rydberg, Abraham Viktor	24	71
Rydqvist, John Erik	24	71
Sa'ad-ed-Deen	27	201
Sa'adi	21	628
Saadi	24	100
Sá De Miranda, Francisco de	24	75
Sadi	24	100
Safařík, Paul J	8	380
Saint Aubain, Andreas Nicolai de	24	122
Saint-Victor, Jacques Benjamin Maximilien	24	171
Salis-Seewis, Johann Gaudenz	24	185
Sanâi	21	628
Santos Chocano, José	24	287
Sarolea, Maurice	24	305
Sappho	24	292
Schmitzler, Arthur	24	383
Sealsfield, Charles	24	486
Secundus, Johannes	16	154
Senna, Nelson Coelho de	24	564
Sheer Ali	27	201
Sheikh Abu Saïd	21	628
Shirazi Moslehedin	24	100
Sienkiewicz, Henryk	24	794
Silva, José Asunción	25	11
Sinclair, Alexander Maclean	25	31
Skála, Paul	8	380
Skallagrimsson, Egil	14	631
Slavata, Count William	8	380
Slowacki, Julius	25	101
Smolenskin, Perez	25	138
Smolinsky, Perez	25	138
Sokolow, Nahum	25	232
Spitteler, Carl	25	424
Stanoyevich, Milivoy Stoyan	25	485
Sao Tung P'O	26	104
Staunton, Sir George Thomas	25	538
Stefanovic Karadzio Vuk	24	590
Stefanović-Karadžić, Vuk	24	589
Stjernhjelm, Georg	26	122
Strindberg, August	25	737
	26	124
Sturlason, Snorre	14	632
Sturlason, Snorri	25	148
Sturluson, Snorri	24	105
	25	757
Suleiman	27	201
Su Shih	26	104
Suttner, Bertha, Baroness von	26	104
Su Tung P'O	26	104
Svetta, Karolina	26	106
Swedberg, Emanuel	26	112
Swedenborg, Emanuel	26	112
Sze-ma Ts'Sen	26	193
Tagle, Manuel Sánchez de	18	788
Tagore, Rabindranath	15	23
	26	214
Tégnér, Esaias	26	324
Thordson, Sigvat	14	631
Thorgilsson, Ari Frodi	14	631
Tilak, Bal Gangadhar	15	23
Töpffer, Rudolph	26	701
Toussaint, Anne Louisa Geertruida	26	722
Tshelebi, Katib	27	201
Tu Fu	27	119
Unsûri	21	628
Upanishads	27	583
Vratislav, Wenceslas	8	380
Vacaresco, Helene	27	624
Valdés, Gabriel de la Concepción (Placido)	27	642
Valmiki	23	199
Vandervelde, Emile	27	682
Varnhagen, Francisco Adolphe de	27	689
Vasconcellos, Antonio Augusto Teixeira de	27	693
Vasconcellos, Joaquim Antonio da Fonseca e	27	693
Vaughan, Henry	27	700
Ventadour, Bernart de	28	7
Vermeersch, Arthur	28	16
Vicente, Gil	28	60
Vicuna, Pedro Felix	28	76
Vidal, Raymond	28	77
Vidyasagar, Iswara Chandra	15	22
Vigfusson, Gudbrand	28	84
Vogt, Nils Collett	20	444
von Dalin, Olof	26	123
Vondel, Joost van den	28	184
Vorosmarty, Michael	28	186
Vossius, Gerardus Johannes	28	188
Vossius, Isaac	28	188
Vras, Stanko	28	194
Wang Shih-Fu	28	254
Wergeland, Henrik	20	442
	29	193
Wiener, Leo	29	297
William IX, Duke of Aquitaine and Count of Poitou	29	336
Winther, Rasmus Villads Christian Ferdinand	29	405
Worm, Ole	8	460
Wolf, Ferdinand	29	437
Wyttenbach, Daniel Albert	29	592
Wyttenbach, Johanna Gallien	29	592
Xenos, Stefanos Theodoros	29	597
Xuares, Gaspar	29	600
Yousouf	27	201
Yussuf, Abu Amru	29	677
Zahn, Ernst	29	681
Zaleski, Bohdan	29	682
Zalokostas, Georgios	29	683
Zbylitowski, Pierre	29	689

Other Countries — cont'd	Vol.	Page
Zedlitz, Josef Christian Baron von	29	694
Zevecot, Jacques	29	707
Zeyer, Jules	29	707
Ziegler, Karl	29	707
Zimmerman, Johann Georg Ritter von	29	709
Zwinger, Theodor	29	742

Drama

Aubes, Les	8	516
Bhavabhuti	3	608
Dawn, The	8	516
Djayadêva	15	763
Editor, The	9	588
Ghosts	12	635
Hedda Gabler	14	62
Jayadêva	15	763
Lucifer	17	717
Master Builder, The	18	418
Monna Vanna	19	362
Nara Era	15	689
Peer Gynt	21	469
Pelléas and Mélisande	21	486
Philander	21	735
Priest of Kirchfeld, The	22	573
Sri-Kantha	3	608
Wild Duck	29	303

Biographies

Bernardakis, Demetrios	3	570
Bergström, Hjalmar	3	550
Beskow, Bernhard von	3	585
Bessenyei, György	3	587
Biester, João Ernesto	3	692
Blanche, August Theodor	4	60
Brandes, Carl Edvard Cohen	4	411
Calderón y Beltran, Fernando	5	188
Coster, Samuel	16	583
Dahlgren, Fredrik August	8	394
Demeter, Dimitrija	8	687
Ennes, Antonio	10	391
Erben, Charles Jaromir	8	382
Esmann, Gustav Frederik	10	500
Férreira De Vasconcellos, Jorge	11	139
Fredro, Alexander	12	41
Garcia De Quevedo, José Heriberto	12	280
Gomes de Amorim, Francisco	13	41
Grellparzer, Franz	13	473
Halm, Friedrich	19	563
Hertz, Henrik	14	153
Herzl, Theodor	16	102
Hostrup, Jeñs Christian	14	434
Ibsen, Henrik	14	618
Jeřábek, Frantisek	16	17
Jireček, Joseph	8	382
Jolin, Johan Kristofer	16	192
Kalidasa	16	283
Katona, József	16	316
Kazinczy, Ferencz	16	324
Kisfaludy, Charles (Karoly)	16	461
Kličpera, Wenceslas	8	382
Kolar, Josef Jiri	16	510
Koster, Samuel	16	583
Langendijk, Pieter	16	719
Mallian, Julien de	18	167
Mužák, Johanna	8	381
Oehlenschläger or Oehlensläger, Adam Gottlob	20	593
Otero, Rafael	21	40
Overskou, Thomas	21	59

Other Countries — cont'd	Vol.	Page
Palmotic, Dzono	24	589
Schnitzler, Arthur	24	383
Sigurd Slembe	24	805
Strindberg, August	11	54
	25	737
Topelius, Zachris	26	700
Tyl, Joseph K	8	382

JOURNALISM

Subjects

Acta, Diurna	20	281
Acta Publica	20	281
Acta Senatus	20	281
America	6	98
American Celt	6	96
American Newspaper Publishers Association	20	287
American Railway Journal	26	753
Associated Press	2	424
	20	286
	22	556
Ave Maria	6	98
Boston News Letter	4	302
British Gazette, The	13	314
Caricature	11	703
Catholic Press of America	6	94
Catholic Review	6	96
Catholic News	6	97
Catholic Union	6	97
Catholic Herald	6	97
Catholic Standard	6	97
Catholic Mirror	6	98
Catholic Guardian	2	98
Censorship of the Press	6	193
Daily Alfred Austin, The	2	561
Daily Courant, The	13	314
	20	282
Daily Monitor, The	13	314
Dublin Newsletter, The	13	314
Edinburgh Review	9	587
Educational periodicals	9	701
Feuilleton	11	162
Figaro	11	704
Gazette de France, The	20	282
Grange Bulletin	5	473
Havas Agency, The	22	556
Half-penny Bazaar, The	11	703
Hibernian Chronicle	6	95
Illinois Helard	14	692
Illustrated papers, French	11	706
Journalism	16	217
agricultural	16	220
American, development of	20	284
class publications	9	223
	16	222
in France	11	700
medical	18	545
school of	16	222
Literature, periodical	21	590
American	21	591
Australian	21	592
Belgian	21	592
Canadian	21	592
English	21	592
French	21	593
German	21	593
Holland	21	594
Indian	21	594
Irish	21	594
Portugal	21	595
Russia	21	594
Scottish	21	594
Spanish	21	595
Swedish	21	595
Swiss	21	595

Journalism — cont'd	Vol.	Page
London Gazette	13	314
Medical Journalism	18	545
Moniteur, Le	19	356
Newe Zeytung	20	281
News From Spain, The	20	281
Newsgathering, method of	20	285
Newspaper	20	280
syndicate	20	283
	22	557
Newspapers, American	20	283
classification of	20	286
Australian	20	283
Belgian	20	282
English	13	313
	20	281
French	11	700
	20	282
German	20	282
history of	20	281
Holland	20	282
Irish	20	282
making of	20	280
mechanical equipments	20	287
Russian	20	282
Scottish	20	282
New tidings	20	281
News-Letter, Dublin	20	282
Notizie Scritte	20	281
Nouvelles à la Main	11	700
Oxford Gazette	13	314
Peking Gazette, The	20	281
Pharmaceutical Press	9	347
Press, Liberty of the	17	351
	22	554
Public Intelligencer, The	13	314
Punch	23	15
Relationen	20	281
Relations	20	281
Reuter Agency	22	555
	23	439
Revue des Deux-Mondes	11	703
Tatler, The	26	283
Ti Chau	20	281
Weekly News from Italy, Germany, The	20	281
Wolff Bureau, The	22	556

Biographies

UNITED STATES

Abell, A. S	20	285
Bache, Benjamin Franklin	20	283
Bartlett, John Sherren	3	293
Baxter, Sylvester	3	358
Beach, Moses Yale	3	372
Beach, Moses Sperry	3	371
Beach, Frederick Converse	3	371
Benjamin, Park	3	518
Benjamin, Marcus	3	517
Bennett, James Gordon (1st)	3	520
Bennett, James Gordon (2d)	3	520
	20	284
Biddle, Anthony Joseph Drexel	3	685
Bierce, Ambrose	3	692
Blair, Francis Preston	4	53
Bliss, Porter Cornelius	4	88
Bok, Edward William	4	177
Bonner, Robert	4	219
Bowles, Samuel	4	365
Bowen, Henry Chandler	4	362
Bray, Frank Chapin	4	423
Briggs, Charles Frederick	4	537
Brisbane, Arthur	4	544

Journalism — cont'd	Vol.	Page
Brooks, Noah	4	595
Brown, John Howard	4	609
Browne, Junius Henri	4	615
Brownlow, William Gannaway	4	621
Brummitt, Dan Briarley	4	631
Bryant, William Cullen	4	648
	20	284
Buckinham, Joseph Tinker	4	666
Burlingame, Edward Livermore	5	49
Burton, Richard	5	68
Campbell, John	5	279
	20	283
Campbell, Bartley	5	277
Carpenter, Edmund James	5	652
Carroll, Howard	5	673
Carruth (Fred), Hayden	5	674
Chalmers, Alexander	6	254
Chamberlin, Joseph Edgar	6	263
Chamberlain, Samuel S.	6	262
Chapple, Joe Mitchell	6	299
Chenery, Thomas	6	410
Church, Francis Pharcellus	6	652
Clark, Charles Heber	7	40
Clark, Charles Hopkins	7	40
Clark, Kate Upson	7	43
Clark, Lewis Gaylord	7	43
Coffin, Robert Barry	7	213
Colton, Walter	7	383
Cortissoz, Ellen Mackay Hutchinson	8	28
Cox, James M	8	140
Crane, Frank	8	155
Creelman, James	8	176
Crosswell, Edwin	8	242
Cummings, Amos Jay	8	300
Cunliffe-Owen (Philip), Frederick	8	303
Curtis, Cyrus Hermann Kotzschmar	8	316
Curtis, George William	8	317
Curtis, William Elery	8	318
Dana, Charles Anderson	8	443
Daniel, John Moncure	8	452
Davidson, James Wood	8	504
Davis, Thomas Edward	8	513
Davis, Richard Harding	8	512
Davis, Oscar King	8	512
Dawley, Thomas Robinson, Jr.	8	516
Day, Richard Edwin	8	518
De Bow, James Dunwoody Brownson	8	544
De Fontaine, Felix	8	592
Dingley, Nelson	9	125
Dinwiddie, William	9	131
Dodds, Alexander	9	219
Dorr, Rheta Childe	9	267
Doubleday, Frank Nelson	9	275
Douglas, Frederick	9	281
Downing, Jack	25	127
Downes, William Howe	9	288
Dromgoole, Will(iam) Allen	9	330
Dunne, Finley Peter	9	406
Edmonds, Richard Hathaway	9	588
Edwards, Harry Stilwell	9	707
Fearn, Richard Lee	11	74
Ford, Patrick	11	466
Franklin, Benjamin	4	385
	12	8
Gales, Joseph	12	235
Godwin, Parke	12	749
Going, Charles Buxton	13	8
Goral, Boleslaus Edward	13	61
Grady, Henry Woodfin	13	104
Gray, David	13	165
Graves, John Temple	13	163
Greeley, Horace	13	419
Greene, Della	13	427
Greene, Nathaniel	13	429
Green, Duff	13	422
Guild, Curtis	13	534
Hale, Nathan	13	634
Hallock, Gerard	13	648
Halstead, Murat	13	651
Hanson, Alexander Coutee	13	685
Hapgood, Norman	13	686
Harding, Warren G.	13	699
Harney, John Hopkins	13	719
Hastings, Hugh	13	750
Hatton, Frank	13	758
Heath, Perry Sanford	14	50
Heaton, John Langdon	14	54
Hemphill, James Calvin	14	92
Hearst, William Randolph	14	36
Hillegas, Howard C.	14	190
Holland, Josiah Gilbert	14	317
Horgan, Stephen Henry	14	381
House, Edward H.	14	444
Howard Glyndon	24	489
Howell, Clark	14	450
Irwin, Wallace	15	403
Irwin, Will	15	403
Irwin, William Henry	15	403
Jennings, Louis John	16	16
Johnson, Burges	16	169
Jordan, Elizabeth Garver	16	208
Jordan, William George	16	209
Kauffman, Reginal Wright	16	319
Kendall, George Wilkins	16	351
Kellogg, Paul Underwood	16	342
Kennedy, William Sloane	16	357
King, Charles	16	428
King, Rufus	6	95
	16	432
Kiser, Samuel Ellsworth	16	460
Knortz, Karl	16	490
Knox, Thomas Wallace	16	497
Kobbé, Gustav	16	502
Krout, Mary Hannah	16	545
Ladd, Herbert Warren	16	642
Laffan, William Mackay	16	649
Laidler, Harry Wellington	16	653
Lampton, William James	16	684
Lanman, Charles	16	734
Larned, Josephus Nelson	16	750
Lawson, Victor Fremont	17	155
Leavitt, Joshua	17	205
Lee, Algernon	17	217
Leslie, Frank	17	316
Lewis, Alfred Henry	17	333
Lewis, Charles Bertrand	17	333
Linn, William Alexander	17	461
Lord, Chester Sanders	17	655
Lorimer, George Horace	17	662
Loomis, Francis B.	17	652
Ludlow, Fitzhugh	17	721
McClure, Alexander Kelly	18	26
McClure, Samuel Sidney	18	26
McClurg, Alexander Caldwell	18	26
McCormick, Joseph Medill	18	28
McDonald, James Alexander	18	37
McGrath, Harold	18	49
McMichael, Morton	18	82
McKelway, Saint Clair	18	65
McPherson, Edward	18	89
MacGahan, Januarius Aloysius	18	47
Mailly, William	18	139
Manning, Daniel	18	229
Marble, Manton	18	264
Mayer, Henry	18	465
Medill, Joseph	18	587
Meekins, Lynn Roby	18	592
Miller, Francis Trevelyan	19	118
Millet, Francis Davis	19	124
Mitchell, Samuel Latham	19	269
Mitchell, John Ames	19	267
Mitchell, Edward Page	19	266
Mitre, Bartolomé	19	272
Miner, Charles	19	155
Miner, William Harvey	19	155
Morris, George Perry	19	474
Morris, George Pope	19	474
Morse, Sidney Edwards	19	484
Munsey, Frank Andrew	19	596
Nelson, Henry Loomis	20	64
Newell, Robert Henry	20	266
Nichols, George Ward	20	318
Nicolay, John George	20	328
Niles, John Milton	20	348
Niles, Hezekiah	20	347
Nixon, Oliver Woodson	20	379
Nixon, William Penn	20	380
Noah, Mordecai Manuel	20	381
Nordhoff, Charles	20	399
Norris, Frank	20	407
Norton, Frank Henry	20	435
Noyes, Frank Brett	20	480
O'Brien, Fitz-James	20	545
Ochs, Adolph S.	20	570
Ochs, George Washington	20	570
Ogden, Rollo	20	605
O'Malley, Frank Ward	20	679
O'Meara, Stephen	20	682
Otis, Harrison Gray	21	43
Ottendorfer, Oswald	21	48
Page, Walter Hines	21	97
Patterson, Robert Wilson	21	409
Payne, Will	21	434
Peffer, Wilhelm Alfred	21	471
Piatt, Donn	22	60
Pierce, Richard	20	283
Pollard, Charles Louis	22	319
Pollak, Gustav	22	319
Pomeroy, Marcus Mills	22	341
Pond, James Burton	22	348
Potter, Paul Meredith	22	453
Porter, Robert Percival	22	392
Posey, Alexander Lawrence	22	420
Pray, Isaac Clark	22	514
Prentice, George Dennison	22	582
Prime, Samuel Irenæus	22	577
Pryor, Roger Atkinson	22	724
Pulitzer, Joseph	20	285
	22	795
Putnam, George Haven	23	33
Putnam, George Palmer	23	33
Quad, M.	17	333
Ralph, Julian	23	198
Randall, James Ryder	23	207
Ranous, Dora Knowlton	23	213
Raymond, Henry Jarvis	20	285
	23	239
Read, Opie Percival	23	246
Read, John Elliot	23	245
Reader, Francis Smith	23	247
Redpath, James	23	289
Reick, William Charles	23	329
Reid, Ogden Mills	23	330
Reuterdahl, Henry	23	440
Rice, Allen Thorndike	23	385
Riddle, Matthew Brown	23	510
Rideing, William Henry	23	510

Journalism — cont'd	Vol.	Page
Ritchie, Thomas	23	538
Riis, Jacob Augustus	23	522
Rivington, James	23	555
Roberts, Brigham Henry	23	567
Robins, Edward	23	578
Robinson, Albert Gardner	23	578
Robinson, Doane	23	579
Robinson, Jonah Leroy	23	579
Robinson, William Erigena	23	583
Roche, James Jeffrey	23	588
Rosewater, Edward	23	701
Rosewater, Victor	23	701
Russell, Benjamin	23	783
Russell, Henry Benajah	23	785
Sajous, Charles Eucharist de Médicis	24	174
Sanborn, Alvan Francis	24	247
Sanborn, Franklin Benjamin	24	247
Sanburg, Carl	24	253
Sands, Robert Charles	24	257
Sartain, John	24	307
Saunders, Frederick	24	319
Schaff, David Schley	24	362
Schrader, Frederick Franklin	24	401
Schurz, Carl	24	407
Schuyler, Montgomery	24	408
Scott, Harvey W	24	439
Scovel, Sylvester	24	448
Searing, Laura Catherine Redden	24	489
Seaton, William Winston	24	493
Seitz, Don Carlos	24	534
Sedgwick, Ellery	24	523
Sedgwick, Arthur George	24	523
Seward, Frederick William	24	625
Serviss, Garrett Putnam	24	605
Shanks, William Franklin Gore	24	658
Shaw, Albert	24	664
Shephard, Elliot Fitch	24	697
Shillaber, Benjamin	24	710
Simonds, Frank Herbert	25	25
Smalley, George Washburn	25	105
Smith, Seba	25	127
Stone, Melville Elijah	25	678
Swift, Lindsay	26	132
Swinton, John	26	141
Taft, Charles Phelps	26	212
Tarbell, Ida Minerva	26	266
Taylor, Bert Leston	26	297
Taylor, Charles Henry	26	297
Tefft, Benjamin Franklin	26	324
Thomas, Albert Ellsworth	26	571
Thomas, Joseph	26	573
Thompson, Charles Miner	26	576
Thompson, John Reuben	26	578
Thompson, Mortimer M.	26	579
Thompson, William Tappan	26	580
Thwaites, Reuben Gold	26	603
Tilton, Theodore	26	628
Toplift, Samuel	20	286
Townsend, George Alfred	26	727
Towse, John Ranken	26	728
Trumbull, Henry Clay	27	104
Unger, Frederic William	27	281
Villard, Henry	28	90
Vorse, Albert White	28	186
Walsh, Robert	28	247
Watterson, Henry	29	112
Webb, James Watson	29	142
Webber, Charles Wilkins	29	144
Weed, Thurlow	29	155
Welch, Philip Henry	29	176
Wentworth, John	29	193
Wertenbaker, Thomas Jefferson	29	195
Whitaker, Daniel Kimball	29	263
White, Horace	29	266
Whiting, Lilian	29	278
Whitmarsh, Hubert Phelps	29	282
Whitney, Caspar	29	283
Wilder, Alexander	29	312
Williams, Talcott	29	345
Williams, Walter	29	345
Willis, Nathaniel Parker	29	349
Winship, Albert Edward	29	399
Wood, Henry Alexander Wise	20	287
	29	472
Woodworth, Samuel	29	500
Wright, Elisur	29	568
Young, John Russell	29	651
Zenger, John Peter	29	698

BRITISH EMPIRE

Journalism — cont'd	Vol.	Page
Bedard, Pierre Stanislas	3	411
Bell, Charles Frederick Moberly	3	473
Bell, Robert	3	477
Black, Adam	4	30
Black, John	4	31
Blackwood, William	4	49
Bland, John Otway Percy	4	61
Brereton, Austin	4	468
Brooks, Charles William Shirley	4	594
Buckle, George Earle	4	668
Bunting, Sir Percy (William)	5	27
Carlile, Richard	5	617
Carmen, Bliss	5	628
Carpenter, William	5	654
Chambers, Edward T. D.	6	263
Chambers, Ephraim	6	263
Chambers, Ernest John	6	263
Cook, Sir Edward Tyas	7	620
Cook, Theodore Andrea	7	623
Cooper, Charles Alfred	7	634
Crilly, Daniel	8	192
Dafoe, John Wesley	8	391
Desjardins, Alphonse	9	10
Dewart, Edward Hartley	9	45
Edwards, John Passmore	9	708
Farrer, Edward	11	49
Fonblanque, Albany William	11	424
Graham, Hugh, Baron Graham of Montreal	13	107
Greenwood, Frederick	13	441
Griffin, Martin Joseph	13	470
Hannay, David	13	679
Harmsworth, Alfred Charles William	20	427
Henry, Thomas William	14	108
Hook, Theodore Edward	14	362
Jeffery, Walter J	16	7
Jerdan, William	16	17
Kebbel, Thomas Edward	16	331
Kent, William Charles Mark	16	362
Knight, Edward Frederick	16	481
Knight, John James	16	482
Labouchère, Henry Du Pré	16	621
Lestrange, Sir Roger	17	318
Leroux, Robert Henri	17	313
Lucy, Henry (William)	17	719
McCarthy, Justin Huntly	18	21
McGee, Thomas D'Arcy	18	47
McGrath, Patrick Thomas	18	49
MacDougall, William	18	40
Mackenzie, William Lyon	18	69
Maclean, William Findlay	18	77
Macphail, Andrew	18	88
Marcil, Charles	18	272
Montgomery, James	19	407
Murray, Grenville	19	610
Nevinson, Henry W	20	111
Newnes, Sir George	20	277
Nicoll, Sir William Robertson	20	328
Norman, Sir Henry	20	404
North, Simon Newton Dexter	20	410
Northcliffe, 1st Baron	20	427
O'Brien, William	20	545
O'Connor, Thomas Power	20	572
O'Donoghue, David J	20	585
O'Reilly, John Boyle	20	784
Parent, Etienne	21	297
Pearson, Cyril Arthur	21	457
Pickering, William	22	67
Pinkerton, John	22	102
Pratt, Ambrose	22	511
Rattray, William Jordan	23	230
Reade, John	23	247
Reid, Thomas Wemyss	23	331
Roberts, Morley	23	569
Robertson, John Mackinnon	23	572
Robertson, John Ross	23	572
Robinson, Geoffrey	23	581
Rolliston, Thomas William Hazen	23	636
Royal, Joseph	23	734
Russell, William Howard	23	787
Sala, George Augustus Henry	24	175
Scott, Clement	24	438
Seaman, Owen	24	486
Sheppard, Edmund Ernest	24	700
Shorter, Clement King	24	746
Sinnett, Alfred Percy	25	42
Somerville, Alexander	25	251
St. John, Frederick Edward Molyneux	24	133
Tardivel, Jules Paul	26	267
Taylor, Tom	26	302
Teixeira De Mattos, Alexander Louis	26	326
Thomas, John	13	314
	26	573
Traill, Henry Duff	26	765
Villiers, Frederic	28	93
Walter, John	28	248
	28	249
Weir, Harrison William	29	172
White, Arthur Silva	29	264
Whiteing, Richard	29	277
Wilkinson, Henry Spenser	29	321
Williamson, Charles Norris	29	347
Willson, (Henry) Beckles	29	352
Wilson, John Mackey	29	361

Journalism — cont'd Vol. Page

Wood, Walter..... 29 475
Woodfall, Henry Sampson 29 495
Zerffi, George Gustavus. 29 704
Zimmern, Helen..... 29 710

FRANCE

Bertin, Louis François.. 3 582
Bertin the Elder..... 11 162
Bréal, Michel Jules Alfred 4 452
Brisson, Eugène Henri.. 4 546
Buloz, François..... 5 19
Carnot, Lazaer Hippolyte 5 643
Carrel, Nicolas Armand. 5 664
11 708
Cassagnac, Bernard Adolphe Granier de... 5 706
Charmes, Francis..... 6 334
Courrier, Paul-Louis.... 11 703
Dupuy, Jean..... 9 415
Durand, Marguerite.... 11 705
Gambetta, Léon..... 11 705
12 261
Giardin, Emile de..... 11 703
12 664
Gueroult, Adolphe..... 13 525
Joliet, Charles..... 16 191
Jussieu, Laurent Pierre de 16 262

Journalism — cont'd Vol. Page

Kératry, Count Emile de 16 375
Laffitte, Pierre..... 11 705
Nettement, Alfred François 20 96
Poincaré, Raymond..... 11 705
22 280
Prévost-Paradol, Lucien Anatole 22 566
Ranc, Arthur..... 23 206
Rattazzi, Marie Studolmine de Solms..... 23 228
Renaudet, Théophraste.. 11 700
Robespierre, Maximilien. 11 701
23 574
Rochefort, Henri..... 23 588
Sarcey, Francisque..... 24 296
Simon, Valentin..... 11 705
Tardieu, André Pierre Gabriel Amédée..... 26 267
Taschereau, Jules Antoine 26 278
Théry, Gustave..... 11 705
Trobriand, Philippe Regis 27 80
Vaughan, E..... 11 705
Victor Henri, Marquis de Rochefort Lucay... 23 588
Vigny, Alfred de..... 11 706
28 85
Villemessant, Jean Hippolyte Cartier..... 28 92
Wolff, Albert..... 29 441

Journalism — cont'd Vol. Page

GERMANY

Bertuch, Friedrich Justin 3 582
Blum, Hans..... 4 131
Brockhaus, Friedrich Arnold 4 571
Emmel, Egenolf..... 20 282
Kalbeck, Max..... 16 281
Krause, Ernst Ludwig.. 16 539
Kürschner, Joseph..... 16 560
Morwitz, Edward..... 19 492
Reventlow, Ernst..... 23 442
Thoma, Ludwig..... 26 570

OTHER COUNTRIES

Benedict, L..... 29 402
Castélar y Ripoll, E.... 6 2
Chew, Ng Poon..... 6 433
Herzl, Theodor..... 14 154
Karpeles, Gustav..... 16 310
Katkov, Mikhail Nikiforovitch 16 315
Larra, Luis Mariano de. 16 761
Larra, Mariano José de. 16 751
Potvin, Charles..... 22 450
Quintana, Manuel José.. 23 97
Sarolea, Maurice..... 24 305
Wintchevsky, Morris.... 29 462
Zhitlovosky, Chaim..... 29 707

LAW AND LEGISLATION

General

Abalienation 17 235
Abandonment 1 7
17 235
Abatement 1 7
Abator 17 235
Abetment 17 235
Abeyance 1 40
17 235
Abjudication 17 235
Abjuration 1 42
17 235
Able 17 235
Abolition 17 235
Abrogation 17 235
Absentee 17 235
Absenteeism 1 52
Absolute estate 17 235
Abs. re..... 17 235
Absolute rights..... 1 53
Absolution 17 235
Abstract of title..... 1 55
Absque hoc..... 17 235
Abuse of distress..... 17 235
Abuse of powers..... 17 235
Acceptilation 17 235
Access 1 69
right of..... 1 69

General — cont'd

Accessio 22 662
Accession 1 69
Acquisition 1 102
Accident 1 70
Accident Insurance Law 16 598
Accidents, liability for.. 16 596
Accord and satisfaction. 1 77
Account 1 77
Accrue 17 235
Accumulation 1 81
Accumulative judgment. 17 235
Ac etiam..... 17 235
Acknowledgment 1 94
Acquiescence 17 235
Acquisition 1 102
Act 1 105
Act in pais..... 17 235
Act of God..... 1 105
Act of indemnity (English) 1 105
Act of oblivion 1 105
Act of settlement..... 1 106
Act of supremacy 1 106
Act of toleration..... 1 106
Act of uniformity..... 1 106
Action 1 108
forms of..... 11 492

General — cont'd

Acts of court..... 1 111
17 235
Acts of Parliament..... 1 111
Acuerdo 17 235
Adamson Act..... 27 326
Address 17 235
Ademption 17 235
Adjective law..... 16 259
Adjoining landowners.. 1 140
Adjournment 1 141
Adjudication 1 141
17 235
former 17 235
Admeasurement 17 235
Admiricle 17 235
Administration 1 143
ancillary 1 143
Administrative law..... 22 768
Admiralty and maritime jurisdiction 1 145
Admission 1 146
Admittance 17 235
Adoption 1 150
Adpromissor 17 235
Ad quod damnum..... 17 235
Advancement 1 163
Adverse possession..... 1 166

General — cont'd	Vol.	Page
Advocate	1	171
	8	99
Advowson	17	235
Affeerment	17	235
Affidavit	1	205
Affiliation	1	206
	17	235
Affinity	1	206
Affirmance	17	235
Affirmation	1	206
Affirmations (judicial)	20	532
Affirmative	17	235
Affreightment	18	295
Age	1	234
Agent	1	235
Agrarian laws	1	240
	13	102
Agreement	1	241
Agricultural legislation	1	250
Alabama Claims	12	678
Aleatory contract	17	235
Alien Act	27	313
Alien and Sedition Law	24	525
Alien Law of United States	27	355
Alienation of estates	1	401
Alimony	1	404
Allegation	1	410
Allegiance	1	410
Allodium	1	423
	11	89
Allowance	17	235
Alluvion	1	428
Alteration	1	447
Ambidexterity	17	235
Ambiguity	1	472
Ambulatory	17	235
Amendment	1	477
Amercement	17	235
Amicable action	17	235
Amicus curiæ	1	573
Amnesty Bill of 1872	7	2
Amortization	1	584
	17	236
Analogy	2	220
Anatomy Act of 1832	23	427
Ancestor	1	651
	17	236
Ancient demesne	1	654
Ancient lights	1	654
Ancillary letters of administration	17	236
Animus dominii	16	259
	22	661
Annexation	11	306
Annulment	17	236
Answer	2	7
Antecessor	17	236
Anti-slavery measures	27	421
Anti-trust Act of 1890	27	111
Anti-trust laws	11	85
Apex	2	55
Appam Case	2	73
Apparent	2	74
Appeal	2	74
Appearance	2	75
Appellant	17	236
Appellate jurisdiction	22	627
Appendant	17	236
Application	17	236
Appointment	2	91
	17	236
Apportionment	2	94
Appraisement	2	97
Apprenticeship	2	97
Appropriation	2	98
Approver	17	236
Appurtenance	2	101
Arbitration and award	7	392
Areopagus	2	192
Argentina judiciary system	2	208

General — cont'd	Vol.	Page
Argentine Treaty (1853)	7	400
Argument	2	227
Argumentation	2	227
Arm	17	236
Array	17	236
Arrest of judgment	2	328
Articles	2	357
of agreement	2	358
of association	2	358
of confederation	27	335
	27	342
of impeachment	2	358
of partnership	2	358
Ascendants	2	378
Ashbourne Act of 1885 (Ireland)	15	331
Asportation	17	236
Assay	17	236
Assent	2	421
Assembly, legislative	2	420
right of	2	420
Assessor	2	422
Assets	2	422
Assignment	2	422
Assistance, writ of	2	423
Assize of Clarendon	2	423
Assize of Jerusalem	2	424
Assizes	2	424
Assumpsit	2	428
Asylum, right of	2	484
Atherton Gag	2	497
	12	225
Attachment	2	519
	7	394
Attendant	17	236
Attentate	17	236
Attestation	2	522
Attorn	17	236
Attorney	2	525
Attorney-at-law	2	525
Attorney-general	2	526
Attorney-General of the United States	2	526
Attorney-General, British	2	527
Attorney-General, State	2	526
Attorney, power of	2	525
Attornment	2	527
Auditor	2	535
Australian Chinese Immigration Restriction Act	2	576
Australian Crown Lands Consolidation Act	2	581
Australian Judiciary System	2	583
Austrian Fundamental Laws of 1867	8	646
Austrian judiciary system	2	627
Authentic	17	236
Aver	17	236
Average	2	674
Aven et dénombrement	5	421
Avoidance, plea in	17	236
Avulsion	2	681
Award	2	681
Balfour Land Purchase Bill	15	331
Bankruptcy	3	148
	7	402
laws	3	149
Bank Holidays Act	17	711
Bar	3	226
Barmote Court	3	260
Barrister	3	281
	8	98
Barter	3	288
Basilica	3	309
Basse justice	5	422
Bastard	25	781
Bed of justice	3	411

General — cont'd	Vol.	Page
Belgian Treaty (1875)	7	400
Belligerency	3	484
Bench	3	501
Benchers	3	501
Benefit of clergy	3	508
Bequest	17	236
Berytus, School of	3	584
Betrothal	10	505
Bill	3	703
in equity	17	236
of attainder	3	703
of costs	3	703
of exceptions	3	703
	17	236
of lading	3	703
	18	295
of particulars	17	236
of rights	3	704
Birds, protection of	3	734
Bills, course of	3	708
private	3	709
Black Acts	4	32
Black Law	4	37
Bland Act	19	350
Bland-Allison Act	27	425
Bland Silver Bill	4	52
	4	61
Blair Common School Bill	4	54
Blockade, right of	15	262
Blood-stain tests	4	112
Bloody Bill	4	115
	11	462
Blue Sky Laws	4	127
Bocland or Brckland	4	143
Body of Liberties	12	162
Bolivian Treaty (1878)	7	400
Bona-fide	4	203
	17	236
Bond	4	209
Bonus Bill	4	222
Bookland	4	143
Books, censorship of	4	245
Borough-English	4	282
	13	262
Bottomry	4	319
	18	295
Bought and sold notes	4	324
Bounties	25	775
Bowman Act	4	366
Boycott	4	372
Brachylogus	4	382
Brazil, commercial treaties	7	402
Judiciary system	4	431
Breach	4	445
of contract	4	445
of duty	4	416
of promise of marriage	4	445
of trust	4	446
of warranty	4	446
Breaking bulk	4	452
Brehon	4	462
Bretts and Scots, Laws of	4	473
Breviary of Alaric	4	474
Brief	4	533
	17	236
British-Japanese Treaty	7	400
British Prize Court	22	617
Bubble Act of 1720	8	5
Budgetary practice	22	757
Budget system	22	758
Building lease	4	709
Bulgarus	5	6
Bull	5	8
Burden of proof	5	34
	17	236
Burgage tenure	5	36
By-law	5	90
Canadian Conciliation Act	2	140

General — cont'd	Vol.	Page
Canada Grain Act	5	427
	5	438
Canadian Industrial Disputes Investigation Act	2	140
Canadian judiciary system	5	347
Canadian Navigation Acts	5	453
Canadian Railway Labor Disputes Act	2	140
Canon Law	5	514
new code of	17	133
Canon of ethics	8	100
Capias	5	553
	17	236
Capitulation	5	567
Capitation	5	564
Capitulary	5	566
Caption	5	574
	17	236
Carey Reclamation Act.	23	270
Cargo	5	607
Carolina Law	5	646
Carriage	17	236
Casablanca Case	15	259
Case	5	697
	17	236
Cassation	5	707
	5	708
Cassation, Court of	5	707
Casus belli	6	23
Catholic creditor	6	89
Catholic Emancipation Act	6	92
Cause	6	132
	17	236
of action	17	236
to show	17	236
Cautionary	6	133
Caveat	6	148
emptor	6	148
	16	702
	24	182
lessor	16	702
Caveats	21	885
Cemetery laws	6	190
Cens et rentes	5	421
Censitaires	5	421
	5	422
Centumviri	6	216
Certiorari	6	227
Cesser	17	236
Cessio bonorum	6	231
Cession	17	236
Cestui	6	232
Cestuy	6	232
Challenge	6	253
Chambre	5	708
Chambre de Cassation Civile	5	708
Chambre Introuvable	6	266
Champerty or Champorty	6	271
Chancellor	6	277
Lord High, of Great Britain	6	277
of the Duchy of Lancaster	6	278
of the Exchequer	6	278
Chancery	6	282
inns of	15	145
Charge	17	236
d'affaires	6	305
Charging part	17	236
Charte	6	338
constitutionelle	5	708
Charter	6	338
	8	9
Charter-party	6	340
	18	295
Châtelet	6	351

General — cont'd	Vol.	Page
Chattel	6	359
mortgage	6	359
Chemists and druggists, laws relating to	6	408
Chief Justice, England	6	458
United States	6	458
Child labor	6	461
Children, adopted	25	781
codes relating to	6	482
spirit of modern legislation affecting	6	484
Children's Act	6	482
Children's Charter	6	482
Children's courts	6	486
Children's laws, national committee for standardizing	6	481
Chile Commercial Treaty	7	402
Chinese Exclusion Act.	16	595
Chinese Treaty of 1908.	7	401
Chisholm v. Georgia	6	570
Chose	6	594
in action	6	594
in possession	6	594
local	6	594
transitory	6	594
Cinque codes	7	195
Circuit Courts of Appeals	8	118
Citation	6	699
Civil action	6	728
Civil damage acts	6	728
Civil death	6	728
Civilian	7	20
Civil Law	6	732
	17	124
extent throughout world	6	735
importance in America	6	736
resemblance to American	6	735
Civil Rights Act	27	431
Civil Rights Bills	7	1
	27	431
Civil Rights cases	7	2
	27	438
Civil Service Act, United States	7	4
Civil Service reform	23	393
Claim	7	29
notice	17	236
Claimant	17	236
Clause	17	236
Clay Compromise Act	25	295
Clayton Act	7	75
Clayton Trust Bill (1913)	27	115
Closure	7	125
Coal land laws	19	156
Coal lands	7	148
Coal Mines Act, English.	13	275
Code	7	194
Civil	17	128
de Commerce	7	390
de Henri III	4	546
Frédéric	7	195
International	7	196
Napoléon	6	735
	7	195
Codes, early	17	123
Codex Gregorianus et Hermogenianus	6	733
	7	194
Codex Theodosianus	6	733
	7	194
Codex Vetus	6	733
Codicil	7	197
	17	236
Codification	6	733
Coercion	7	208

General — cont'd	Vol.	Page
Cognizance	7	214
	17	236
Cognovit	7	215
Coinage Act, first	19	349
Coinage Act, 1792	9	236
Collateral ancestors	17	236
Collateral descendants	25	781
Collateral facts	17	236
Collateral issue	17	236
Collateral proceedings	17	236
Collateral security	17	236
Collateral testimony	17	236
Collation	7	253
	17	236
College of Justice (Scottish)	13	230
Collision	18	295
Collocation	17	236
Collusion	7	273
Colombian Judiciary System	7	280
Colombian Treaty (1846)	7	401
Colonus	7	300
Combination Act of 1800.	17	128
Comitat	7	362
Combination, industrial.	7	350
Comitia centuriata	6	733
Comitia curiata	6	733
Comitia tributa	6	733
Comity of Nations	7	363
	17	236
Commentaries on American Law, Kent's	16	362
Commerce clause	7	378
Commerce Court	8	118
Commerce, interstate	7	377
Commercial courts	7	386
Commercial law	7	390
	17	236
Commercial treaties	7	398
Comminatory	17	237
Commissary Court	7	402
Committee	7	406
Committee of One Hundred, Executive	11	48
Common (in law)	7	408
assurances	7	409
law	7	410
	17	237
marriage	18	317
recovery	7	415
Commonwealth Compulsory Arbitration Act	16	600
Community property	17	237
Companies Act	8	5
	8	15
Compensation	7	428
	17	237
Compensatory damage	17	237
Competence	17	237
Complaint	7	430
Complainant	17	237
Composition	7	446
Compulsory military training	27	513
Conciliation Act of 1896.	2	140
Conclusion	17	237
Conclusive evidence	17	237
Concurrent jurisdiction.	7	476
Concurso	17	237
Concussion	17	237
Condition	7	479
Conditional limitation	7	480
Condonation	7	481
	17	237
Conference of Saint Petersburg	15	257
Confession and avoidance	7	494
Confidential or privileged communication	7	496

General — cont'd	Vol.	Page
Confirmation	17	237
Confiscation	7	497
Confiscation acts	7	497
	27	419
Conflict	17	237
Confusion (in law)	7	499
	17	237
Congeé D'Élire	7	499
Conjoint	17	237
Conjual rights	7	522
Connecticut, Fundamental Orders of	12	162
Conscription Act	27	421
Conseil d'Etat	11	623
Conseil des parties	5	708
Conseil de préfecture	11	623
Conseil privé	5	708
Consent (in law)	7	545
Consequential damages or losses	7	546
Consideration	7	549
	17	237
immoral	17	239
Consignment	7	549
Consolato del Mare	20	103
Consolidated Code, Municipal	19	589
Consolidation	17	237
Constitution	7	563
United States	7	571
Constitutional amendments	7	575
Constitutional Law	17	136
	22	768
Constitutions. See under **Government and Political Science — Forms of Government.**		
Construction	17	237
Contempt	17	237
Continuous voyage	7	591
Contraband	7	593
	17	237
Contract	7	594
	17	237
freedom of	7	597
Labor Law	7	598
Contravention	7	600
Contribution (in law)	7	601
	17	237
Conversion	7	611
	17	237
Conveyances, fraudulent	12	27
Conveyancing	7	611
Conveyancing Law, English	13	262
Coparcenary	7	645
Copyhold estate	7	669
Copyhold tenure	13	261
Copyright	7	670
	7	674
Copyrighting of labels	26	752
Corn laws	7	705
Canadian	5	453
	5	454
Corporate action	8	12
Corporate funds	8	11
Corporate liabilities	8	10
Corporate rights	8	9
Corporation	25	660
Corporations, civil	8	6
de facto	8	9
foreign	8	14
lay	8	6
legal	8	6
spiritual	25	421
Corps diplomatique	8	16
Corps législatif	8	16
Corpus	22	661
Corpus juris civilis	6	732
	7	194

General — cont'd	Vol.	Page
	8	99
	17	130
	17	237
Corruption of blood	8	23
Cortes	8	26
Corvée	5	422
Cost	17	237
Costly Clothing Act	9	330
Cotton Futures Act	1	251
Counsel	8	98
Counsellor at law	8	98
Cour de cassation	5	708
	11	623
Court	8	115
of Appeals in cases of capture	8	123
of Claims	8	117
of Common Pleas	22	243
of Custom Appeals	8	117
	27	357
of General Sessions	8	120
of High Commission	8	124
of Session	13	230
of Special Sessions	8	120
Pierpoudre	22	73
Piepowder	22	73
Courtesy, or curtsey	8	125
Courts in the United States	8	117
Courts-martial	17	237
military	19	65
Courts of Quarter Sessions	13	218
Covenant	8	129
	17	237
affirmative	8	129
auxiliary	8	129
collateral	8	129
Covenants, concurrent	8	129
declaratory	8	129
dependent	8	129
inherent	8	129
personal	8	129
real	8	129
of warranty	8	129
of seisin	8	129
Covert	17	237
Coverture	8	131
Covin	17	237
Credible witness	17	237
Creditor, laws of	8	546
Creditor's action	17	237
Creole case	8	179
Crime of '73, The	4	61
Crittenden Compromise	27	402
Cross-action	17	237
Cross-examination	8	230
Cottier tenure	8	59
Cotton Futures Act	8	70
Cuban Judiciary System	8	284
Cumulation	17	237
Curia advisari vult	17	237
Curia Regis	8	306
Curtesy	8	315
Curtilage	8	315
Curule magistrates	8	319
Custom	8	336
Customary law	8	337
Cy-prés	8	367
Damages	8	425
general	8	425
Dams, law of	23	553
right to erect	23	554
Dartmouth College Case	8	483
	26	57
Dative	17	237
Daylight Saving Law	8	521
Days (in law)	8	520
Days of grace	8	520
Death, civil	8	541
duties, English	13	263

General — cont'd	Vol.	Page
De bene esse	17	237
Debenture	8	543
Debt	8	545
action of	8	545
Debtor	8	546
and creditor, laws of	8	546
Deceased Wife's Sister Marriage Bill	8	558
Deceit	8	558
Declaration	8	560
	17	237
dying	8	561
of intention to become a citizen	19	772
of London	15	258
of Paris	15	257
	17	152
of rights	8	565
of Saint Petersburg	17	152
Declatory Act	8	565
Decree	8	572
Dedicate	17	237
Dedit	17	238
De domo reparando	17	238
Deed	8	575
	17	238
recording of	23	271
De facto	8	585
Default	8	585
Defamation	8	585
Defeasance	8	586
Defect	16	761
Defendant	8	586
Defense	8	586
Defense of the Realm Act	8	586
Deforcement	17	238
Degree	17	238
De jure	17	238
Delegation	17	238
Delegates, Court of	8	618
Delivery	8	623
	17	238
Demand	8	630
Demise	8	639
	17	238
Demurrage	8	674
	18	295
Demurrer	8	674
general	8	674
special	8	674
upon evidence	8	674
Denizen	8	679
Denmark, Treaty with	7	401
Deodand	8	701
Depart	17	238
De plano	17	238
Deponent	8	703
Deposition	8	703
Deprivation	8	704
Derelict	8	712
Descendants	8	719
Descent	8	719
	25	781
Desert Land Law	9	6
Detainer	9	16
Determinable	17	238
Detinet	17	238
Detinue	9	27
Devest	17	238
Deviation	9	37
Devise	9	41
Dharmasutra	14	195
Dick Bill	27	512
Dictator	9	86
Dictum	9	89
	17	238
Dies non	9	100
Digest	9	108
Diligence	9	119

General — cont'd	Vol.	Page
Diminution	17	238
Dingley Tariff Act	9	125
Disability	9	148
Disbarment	8	100
	9	150
Discharge	9	150
Disclaimer	9	153
	17	238
equity	9	154
trusts	9	154
Disclaimer Patent Law	9	154
Discontinuance	17	238
Discovery	9	155
Discretion	17	238
Dismission	17	238
Dispensation	9	167
Dispossess	9	168
Disproof	2	230
Disraeli's Borough Franchise Bill of 1867	8	644
Disseisin	9	170
Distrain	9	186
	17	238
Distress	9	186
Distribution	25	781
District courts	8	117
District of Columbia, Constitution of	9	194
Disturbance	17	238
Divestiture	17	238
Divorce	9	206
causes	9	206
Chinese	9	208
courts	9	207
Greek	9	208
Mosaic Law	9	208
Roman	9	208
theory of	17	125
Docket, or docquet	9	216
Doctor utriusque juris	9	216
Doctores canonum et decretalium	9	216
Doctores legum	9	216
Doctrine of judicial review	27	492
Doe, John	9	222
Dogger Banks, Incident	15	259
Doli capax	17	238
Domestic relations	9	241
Domicile	9	241
Dominium	9	248
	16	255
	22	661
directum	9	248
utile	9	248
Dominus	17	238
Domitæ naturæ	11	118
Donatio mortis causa	9	256
Donation	17	238
Dower	9	287
	17	238
	25	781
Dowry	9	288
Draco, Decree of	14	139
Drama, Censorship of	9	310
Drawback	9	313
Dred Scott Decision	7	2
	9	322
Drogheda, Statute of	22	499
Droit de banalité	5	421
Droit de retraite	5	421
Drugs, sale of, first law relating to	9	347
Due process of law	9	384
Duke's Laws	9	391
Duplicity	17	238
Duress	9	424
	17	238
Dusty Foot, Court of	22	73
Dying declaration	8	561
	9	454
Early codes	17	123

General — cont'd	Vol.	Page
Easement	9	500
Eavesdrip	9	519
Ecclesiastical Titles Assumption Act	9	537
Ecuador treaties	7	402
Edict	9	583
Education Law — New York	26	314
Egypt and Ethiopia, treaties with	7	401
Eight-Hour Law	10	28
Ejectment	10	42
Election	10	60
Electoral Commission Law	27	474
Elegit	17	238
Elimination	17	238
Elkins Act	10	251
	27	497
Emancipation	10	270
Act of 1861 (Russia)	8	647
Catholic	10	270
in Latin-America	10	271
Embargo in the United States	10	273
Emblements	10	275
Eminent domain	10	294
	22	779
Emphyteusis	10	301
	22	661
Encensive	5	422
Encumbrance	17	238
Enemy	10	324
Enfeoffment	10	333
England and Wales, judiciary system	13	215
English courts	8	115
English Land Law	13	261
English legislation	17	126
English reform bills	14	290
Englishry, or Englescherie	10	387
Enjoin	17	238
Enrolment	10	397
Enseigneurie	5	422
Entail	10	398
Entireties, tenancy by	17	238
Entry, right of	10	404
writ of	10	404
Equality before the law	10	440
Equity	10	464
of redemption	10	465
procedure	22	627
system	22	627
Era of rationalism	17	127
Erdman Act	2	141
Error	10	485
Escheat	10	493
Escrow	10	497
	17	238
Espiees	17	238
Espousal (Sponsalia)	10	505
Estate	10	519
Estoppel	10	524
Estovers	10	525
Estray	10	525
Estreat	10	526
Estrepement	10	526
Eviction	10	42
Evidence	10	603
Evocation	17	238
Exaction	17	238
Exception	10	618
	17	238
Exchange	17	238
Excise laws in the United States	10	619
Exclusion, Bill	10	619
Executor	10	627
de son tort	17	238
Executory devise	10	628
Exemption	10	636

General — cont'd	Vol.	Page
Ex facie	17	238
Exoneration	10	640
Ex parte	10	617
Expatriation	10	642
	17	238
Expert	10	643
testimony	10	643
Explanation	10	644
Expromisor	17	238
Ex post facto law	10	617
Extend	17	238
Extenuating circumstances	10	667
Extortion	17	238
Extradotal	17	238
Extraterritoriality	10	674
Factor's Act (Dock Warrant)	9	216
	10	698
Factum	17	238
Faculty of Advocates	10	707
Falcidian Law of Rome	2	2
Family Law	11	5
Farm Loan Act, Federal	11	78
	14	319
Fealty	11	74
Federal Aid Act (good roads)	13	56
Federal Aid to Road Act, 1916	23	559
Federal Court of Customs Appeal	27	357
Federal courts	8	117
	27	356
Federal Farm Loan Act	11	78
	14	319
Federal Funding Act	27	424
Federal judges, compensation of	27	357
Federal judges, selection of	27	357
Federal judges, tenure of office	27	357
Federal judicial organization	27	356
Federal judicial power	26	56
Federal judiciary	27	356
Federal railway administration	27	496
Federal Reserve Act	27	427
Federal Trade Commission	25	512
Fee	11	89
	11	159
	17	238
conditional	11	89
simple	11	89
tail	11	89
Feigned issue	17	238
Fellow servants	11	105
Fence	11	112
Feoffment	11	118
Feræ naturæ	11	118
Ferry franchises	23	554
Feu	11	159
Feudal system	11	159
	17	125
Feudal tenures	22	662
Feudum	11	89
Fiat	11	165
money	11	165
Fiction	11	175
Fideicommissum	11	178
Fiduciary	11	179
capacity	17	238
Fief	11	89
	11	187
Fierding Court	11	187
Fieri facias	11	187
	17	238
Fifty-Eight Hour Law	10	700

General — cont'd	Vol.	Page
Filibustering in legislation	11	207
Filius familias	11	6
Financial legislation	22	757
First Chancellor of the State of New York	8	122
First-fruits	11	262
Firstlings	11	262
Fiscal bounty	4	342
Five Mile Act	11	305
Fixtures	11	306
Flag, transfer of	18	295
Fleta	11	347
Floods, law in regard to	23	554
Flotsam	11	382
Folio	11	416
Folkright	11	418
	11	422
Food and Drugs Act	11	444
Food Control Law	11	432
	17	498
Food inspection decisions	11	446
Food laws, standards of purity	19	105
Foods, recent legislation respecting	11	445
Forbearance	17	238
Force and arms	17	238
Force Bill	11	462
Forcible entry	17	238
Forcible entry and detainer	11	464
Foreclosure	7	396
	11	467
Foreign attachment	17	238
Foreign judgment	11	467
Foreign laws	11	468
Foreign states	11	468
Foreshore	11	468
Forest Homestead Act	11	482
Forest laws	11	469
Forestry legislation	11	479
Forfeiture	11	487
	17	238
civil	11	487
Forma pauperis, in	11	489
Forty (days)	11	524
Forum judicum	17	125
Forum rei	16	260
Four Years Law	2	92
France, constitutional laws of	11	610
feudal system	11	617
government pawnshops	18	92
judicial organization	11	623
jurisprudence	11	615
	11	623
law	11	615
legislative power	11	623
Roman law under old monarchy	11	618
Franchise	8	3
	11	751
Act of February, 1918, English	8	644
Franchises, granting of	11	753
legal nature of	11	752
Frank monarchy	11	616
Canon Law	11	619
Code Michau	11	619
Customary Law	11	618
Customs and Roman Law	11	618
feudal tenures	11	620
feudal system	11	617
judicial organization	11	618
legislative power	11	620

General — cont'd	Vol.	Page
personal status	11	617
Roman Law	11	619
royal decrees	11	619
Frankalmoigne	12	5
Frankmarriage	12	17
Frankpledge	12	18
French Civil Code	11	622
French Commercial Code	11	622
French constitution, amendments to	11	614
French Criminal Instruction Code	11	622
French Forest Law Code	11	622
French High Court	11	614
French judicial organization	11	615
French jurisprudence	11	623
French law and jurisprudence	11	615
French law, Germanic origin of	11	615
Roman origin of	11	615
French Military Code	11	622
French Rural Code	11	622
French spoliation claims	12	80
Free Homstead Law	14	339
Freedom of navigable waters	17	126
Freedom of speech	12	49
Freedom of the press	12	49
Freehold	12	50
Free ships, free goods	7	400
	12	48
Fructus industriales	13	498
Fructus naturales	13	498
Fugitive slave laws	12	149
	16	302
	24	502
	25	98
Full Crew Law	16	596
Fundamentals	12	162
Furniture (in law)	17	238
Future estate	12	204
Gabelle	12	213
Gage	17	238
Gager Del Ley	17	238
Gag rules	12	225
Garde des Sceaux	5	708
Garnishee	17	238
Garnishment	12	296
Gavelkind	12	345
	13	262
Gemara	16	87
General average	18	295
General issue	12	374
Geneva convention	12	395
	15	257
Gens	12	401
German mercantile courts	2	140
Germanic legislation	12	526
German Judiciary System	12	528
Gladstone's Home Rule Bill of 1886	15	331
Glebe	12	713
Gift	12	647
	17	238
Giving time	17	238
Golden Bull of Hungary	6	338
Gold Standard Bill	13	13
Gothenburg system	13	76
Government	6	258
	13	87
Go Without Day	17	238
Gracchan law	13	102
Grade crossings, Elimination of	13	104
Graduation Act	13	104
Grain Standard Act	13	112
Grand Châtelet	6	351

General — cont'd	Vol.	Page
Granger cases	13	131
Grant	17	238
Grants in extenso	5	421
Great Council of the Realm	8	306
Great Britain, judiciary system of	13	215
Great Britain, treaty with	7	401
Greek law	13	400
Gross negligence	17	238
Ground rent	13	492
Growing crops, legal status of	13	497
Guarantee	13	513
Guaranty	13	513
Guardian	13	514
Guatemale Treaty	7	402
Habitation	17	239
Hague conventions	17	153
	27	27
	28	670
Halakah	13	629
Half blood	13	636
	25	781
Hamlet case	13	663
Hammurabi, Code of	10	209
	13	666
	17	123
Handelsrecht	7	390
Hard labor	13	695
Harvard Law School	17	131
Hatch Act	13	753
Hatti-Sheriff	13	757
Haute justice	5	422
Head money	14	27
Health and morals, Act of 1802	13	280
	13	290
	17	128
Health education, compulsory	14	32
Health insurance legislation	16	596
Hearsay evidence	17	239
Heir	14	75
Heir apparent	14	75
Heirloom	14	75
Heir presumptive	14	75
Hening's statutes	14	96
Hereditas universalis	22	661
Heresy	14	127
Heritage	17	239
Hepburn act	7	379
Hepburn-Griswold case	14	109
High Court of Justice	8	116
Higher law	14	184
High sea	14	179
	17	239
Highway legislation	23	558
Highways, public, right to use	22	779
Hindu Code	17	123
Hold	17	239
Hollander Law	14	318
Hollis-Moss Bill	14	319
Home rule	4	540
	21	341
Home Rule Bill — Gladstone's	15	331
Homestead and exemption laws	11	8
Homestead exemptions	14	338
Homestead Act	14	338
	16	602
	22	767
Homologation	17	239
Hortensian Law	23	668
Hostage	14	434
Hotchpot	7	253
	14	436

General — cont'd	Vol.	Page
Hotels, lodging-houses, regulations of	14	437
House	14	445
Housing of the Working-Classes Act	26	414
Hundred	14	498
court	14	498
Hungarian Judicial System	14	503
Hungary, Golden Bull of	6	338
Husband and wife	14	522
Hush-money	14	526
Husted Act	23	164
Husting	14	527
Hypothec	14	608
Hypothecation	14	608
	17	239
Ice, law in regard to	23	554
Illegitimacy	14	680
Immaterial averment	17	239
Immigration legislation	14	714
Immigrations, animal and vegetal	14	716
Immoral consideration	17	239
Immovables	17	239
Imparlance	17	269
Impeachment	14	722
	27	476
Impediments	17	239
Imperium	16	255
Impertinent	17	239
Improvement	17	239
Inalienable	17	239
Incapacity	14	735
Inclosure	14	740
Income tax	14	745
English	13	263
Incompatibility	17	239
Incorporation	8	9
	14	747
Incumbrance	14	748
Indemnity contract	14	748
Indenture	14	748
Indirect damages	15	67
Indirect evidence	17	239
Inducement	17	239
Induciae	17	239
Industrial Code	16	598
Industrial Schools Act, 1866	27	102
Infant	15	115
In forma pauperis	14	731
In fraudem legis	17	239
In full life	17	239
Inheritance	15	133
Inhibition	15	134
Injunction	15	136
theatrical	15	137
government by	13	92
Injuria absque damno	17	239
Injury	15	138
In loco parentis	17	239
Innuendo	15	145
Inofficious testament	15	146
In pari causa	17	239
In pari delicto	17	239
In personam	14	732
In propria persona	17	239
Inquest	15	146
In rem	14	732
Insanity	15	154
In solidum in solido	17	239
Insolvency	15	166
In statu quo	17	239
Institutes of Gaius	16	260
Instrument (in law)	15	174
Insular cases	15	175
Insurance, compulsory	25	162
health	25	162
invalidity	25	162
law	15	198
old age	25	162

General — cont'd	Vol.	Page
social	25	162
Intendment	15	206
Intent	15	206
common	15	206
Intention	15	206
Interdict	15	212
	15	213
Interdiction	15	213
Interesse termini	15	213
Internal Revenue Act	15	250
International code	11	180
International disputes, pacific settlement of	15	258
International law	15	255
	22	768
	28	257
changes in	15	260
father of	15	255
International naval conference	15	258
Interpellation	15	267
Interpleader	15	267
Interpretation	15	267
Interstate Commerce Act	7	379
	22	782
Intervention	15	268
Intestacy	15	269
Intestate	25	781
In toto	17	239
Inventory	15	286
Investiture	15	287
Iredell's revisal	15	308
Irish Coercion Act	15	320
Irish Emancipation Bill	15	320
Irish Habeas Corpus Act	15	319
Irish Home Rule Bill	5	675
third	15	321
Irish Judiciary System	15	314
Irish Land Act of 1870	15	311
Irish land laws	15	331
Irish landlordism, system of	15	331
Irish Land Purchase Act	13	263
	15	321
Ironclad oath	15	389
Irrigation bill	15	399
Irrigation, law in regard to	23	554
Issue	15	424
Italian appellate courts	15	471
Italian assizes courts	15	471
Italian department of justice	15	470
Italian Supreme Court	15	472
Italian Treaty (1871)	7	401
Ius possessionis	22	661
Jactitation	15	594
Jactitation (of marriage)	15	594
Japanese coinage law	15	709
Japanese election laws	15	650
Jetsam	11	382
Jewish exchequer	16	60
Jews, the (in law)	16	84
Joinder	17	239
Joint action	17	239
Joint stock company	16	189
Joint tenants	16	189
Jointure	16	190
Judge	16	232
advocate	16	232
advocate general	16	232
Judgment	16	234
in personam	16	234
	16	256
Judgments in rem	16	234
Judicature Act of 1873 (English)	8	98
	8	116
	16	235
Judicial notice	16	235
Judicial separation	16	235

General — cont'd	Vol.	Page
Judicial system of the American colonies	27	338
Judiciary	10	624
	10	627
	16	236
acts, United States	16	236
Jurisconsults and prætors	6	732
	16	255
Jurisdiction	16	255
Jurisprudence	16	257
American	16	257
equity	16	257
medical	16	257
schools of	17	130
Juristic persons	8	7
Jury	16	260
Grand	16	261
Jus abutendi	17	239
Jus civile	6	732
Jus civilis	17	125
Jus gentium	6	732
	16	257
	16	262
	17	125
Jus naturæ	16	262
Jus naturale	6	732
	16	262
	17	141
Jus papirianum	6	733
Jus respondendi	16	255
Jus relictæ	16	262
Justice	16	263
legal	16	264
Lord	16	265
Lord Chief	16	265
of the peace	16	265
United States Department of	16	264
Justices' clerk	16	265
Justiciary, High Court of	16	265
Justification	16	266
Justinian, digest of	16	255
law in the West	6	733
Kansas-Nebraska bill	16	301
	16	302
	27	319
	27	401
Kent's Commentaries	16	362
King's Bench	8	116
	8	198
	13	216
King's (Queen's) counsel	8	98
	16	445
King's highway	23	558
Kinkaid Act	14	340
Korean Treaty (1882)	7	401
Kriegsraison, doctrine of	15	268
Labor administrative agencies	16	597
Labor Day	16	593
Labor legislation	16	593
foreign	16	597
Labor union marks	26	752
Labor union, recognition of	16	595
Labor unions, legal status of	16	614
Laches	16	633
	17	239
Læsa majestas	16	647
Lake front case	13	458
Land and the state; taxation, English	13	263
Land Grant Act	26	319
Landholding	8	11
Landlord and tenant	16	702
Land tenure, Canadian	23	259
Land Transfer Act, 1897, English	13	263
Land transfer, reform in	16	700
Land owners adjoining	1	140

General — cont'd	Vol.	Page
Lapse	16	745
Latent fault	16	761
Law	17	122
American schools of	17	129
and procedure, modern, in United States	27	491
Canon, New Code of	16	133
classification of	22	768
constitutional	17	136
growth and development of, in the United States	27	488
ignorance of	14	673
merchant	7	390
	17	142
military	17	138
natural	17	140
of citation	6	733
of equity	17	239
of merchants	17	239
of nations	17	239
of the XII tables	6	732
public	22	768
school, first American	17	130
terms	17	142
Laws and usages of war	17	150
Laws of Manu	17	123
Laws of Minos	17	124
Laws of war	17	151
Lawyer	17	155
Lay days	17	156
Lease	17	180
and release	17	180
Leasehold	17	180
Leave and license	17	201
Le Code Civil	6	735
Le Code de Procédure Civile	6	735
Le Code Forestier	6	735
Legacy	17	234
Legal advisory boards	24	538
Legal education	17	234
Legal maxims	18	459
Legal monopoly	22	779
Legal proceedings	17	234
Legal representative	17	234
Legal status of labor unions	16	614
Legal tender cases	17	235
Legal terms	17	235
Legislation	6	733
	17	247
direct	17	249
English	17	126
modern development	17	128
Legislative reform	17	250
Legislature	17	252
Legislatures, origin of	17	252
powers of	17	254
Legitim	17	254
Legitimacy	17	254
Legitimation	17	255
Les Codes de Justice Militaire	6	735
Letters patent	21	382
Letters testamentary	17	239
Lettre de caché	21	382
Lettres d'état	5	708
Lettres de proposition d'erreur	5	708
Levee en masse	5	411
Le virate marriage	17	329
Levitical degree	17	239
Levitical law	18	314
Levy	17	332
Lex Gabinia	12	214
Lex Hortensia	14	417
Lex Julia	26	19
Lex loci	17	239

General — cont'd	Vol.	Page
Lex maritima	17	126
	18	294
Lex mercatorum	17	126
Liability for accidents	16	596
Libel	13	657
	17	345
publication of truth	23	92
Library laws and legislation in the United States	17	392
License	17	395
Licinian rogations	23	668
Lien	17	407
Life estate	17	411
Ligan	11	382
Limitation of actions	17	443
Limitations on proprietary rights	22	663
Limited liability	17	443
Lineal descendants	25	781
Liquidated damages	17	239
Liquor legislation	17	497
	17	498
Balkans	17	498
Belgium	17	498
China	17	499
France	17	498
Great Britain	17	498
Holland	17	498
Italy	17	498
Norway	17	498
Russia	17	498
Sweden	17	498
Litchfield Law School	17	130
Lit de justice	17	504
Litteræ patents	21	382
Livery in deed	11	118
Livery of seisin	24	532
Loan act	27	423
Lobby	17	552
Lode claims	19	156
	19	185
Lodge Election Bill	11	463
Lodgings	17	590
Lods et ventes	5	421
Logan Act	17	595
Log roll	4	222
Lois usuelles	6	735
London courts of law	17	624
Lord chief justice, England	6	458
	13	216
	13	217
Louisiana, Code of	17	684
Lycurgus of Sparta	17	124
Made known	17	239
Magna Charta	6	338
	13	602
	18	122
Maintenance	17	239
	18	151
Maîtres	5	708
Majestas	18	153
Majesty	18	153
Malicious prosecution	18	166
Manbote	17	239
Mandamus	17	239
	18	204
Mandate	18	205
Manifest	18	214
Manifesto	18	214
Mann-Elkins Law	7	379
Manse	18	233
Manumission	18	242
Manu, Code of	14	195
Manu forti	17	239
Marbury-Madison case	18	266
Mare Clausum	18	277
Marine court	8	120
Marine insurance	18	295
Maritime law	18	294
Marriage Law, modern	18	317

General — cont'd	Vol.	Page
Marriage, nullity of	20	486
law of	18	313
restraint of	23	421
Married women's property acts	11	8
	14	526
Martial law	18	334
Massachusetts playground law	23	274
Master of the rolls	18	418
Maternity pension acts	25	163
Matter in deed	17	239
Matter of fact	17	239
Matter of law	17	239
Matter of record	17	239
Maxims, legal	18	459
McKinley Tariff Act	4	343
	18	73
	27	425
Meat Inspection Law	18	482
	23	27
Meat, inspection of	18	482
Mechanic's Lien Law	16	594
Mechanics' liens	18	525
Mediæval	22	662
Mediation	18	535
Medical jurisprudence	18	547
Mercantile law	17	239
Mercantile Marine Act	24	487
Merchant Shipping Act	22	249
Merchant vessels, neutral, rights of	18	664
transfer of from belligerent to neutral flags	18	665
Merger	18	672
Mesne process	18	686
Metes and bounds	17	239
Mexico treaties	7	402
Midnight judges	19	44
Militia Law, first	27	512
Milligan Case, ex parte	19	126
Mineral land laws of the United States	19	156
Miners' rules and regulations	19	183
Minimum wage	19	172
Mining laws of the United States	19	182
Mining legislation, Federal	19	184
Minor (in law)	19	209
Mint Act, 1792	13	13
Miscarriage	19	225
Mishna	16	86
divisions of	16	86
treatises of	16	86
Misjoinder	17	239
Misnomer	19	227
Misrepresentation	19	227
Missouri Compromise	16	301
Missouri limitation	27	400
Mistake	19	261
Mistrial	19	262
Mixed property	19	274
Mobile Bill	4	334
Modern law and procedure in United States	27	491
Monroe Doctrine	19	373
Monroe Doctrine, its development	27	362
Moot	17	543
Moral certainty	17	239
Moratorium	21	245
	21	383
More or less	17	239
Morrill Act	9	594
	17	686
Morrill Educational Bill	26	319
Mortgage	19	488
Mortmain	19	489

General — cont'd	Vol.	Page
Most favored nation clause	7	399
Motion	19	513
Moving pictures, censorship of	19	539
Moyenne justice	5	422
Mulct	17	240
Mulligan letters	4	52
Municipal Corporation Act	19	589
Municipal Law	17	240
	19	585
Municipal Loan Fund Act	14	196
Municipal Reform Act of 1835, English	8	644
	19	589
Munitions of war acts, English	2	140
Mystic testament	17	240
Napoleonic code	6	735
National Banking Act	19	350
National Defense Act	24	537
	27	512
	27	537
National government and corporations	8	14
National Insurance Act	16	598
National Tariff Act	26	269
Nationality	19	765
Natural law	17	240
Naturalization by incorporation	19	773
Naturalization in other countries	19	773
Naturalization of Chinamen	19	773
Naturalization laws	19	772
Naturalized citizens, children of	19	773
protection abroad	19	773
Naval Prize Act of 1864 (England)	22	615
Navigable water	23	552
Navigable waters, freedom of	17	126
Navigation	14	555
Act, British	20	15
laws of the United States	20	15
Ne baila par	17	240
Negligence	20	45
Netherlands Treaty (1852)	7	401
Neutrality	20	102
absolute	20	103
armed	20	103
benevolent	20	103
laws	23	444
of Belgium, violation of	15	260
perpetual	20	103
qualified	20	103
Never indebted	17	240
Newfoundland, The Atlantic Fisheries' Dispute	20	266
Newland Act	2	141
	14	556
Newlands Reclamation Act	15	393
	20	274
Newly discovered evidence	17	240
New promise	17	240
New York Bar Association, founder of	24	697
New York Charter of 1873	4	88
New York City, Children's Court	8	120
City Court	8	119
Magistrates' courts	8	120
Municipal Court of	8	120
New York Consolidation Act	4	88
New York courts	8	119
New York, first chancellor of	8	122
New York, Supreme Court of	8	119
New Zealand Industrial Court	2	140
Next friend	20	293
Nicaragua treaties	7	402
Nihil habet	17	240
Nihil dicit	17	240
Nisi prius	20	370
Nominal damage	17	240
North America Act	11	82
Northampton School of Law	17	131
Northern Securities Case	20	428
Notary or Notary Public	20	457
Notice	20	458
Novation	20	467
Novel constitutions	20	477
Novels (in law)	20	477
Nuisance	20	488
private	20	483
Nuisances, public	20	483
Nulla bona	17	240
	20	484
Nul tort	17	240
Oaths (judicial)	20	532
Obedience	20	536
Obiter dictum	20	541
Obligation	20	543
Obligations ex delicto	16	259
Obstruction	20	554
Old-age Pensions Act	16	598
Olmstead Claim	20	669
Open ports	7	400
Optional writ	17	240
Ordinance	20	769
Organic Law of the State	17	240
Original Selective Service Law	24	537
Orphans' Court	21	9
Ostracism	21	34
Ouster	21	54
Overman Bill	27	551
Overt	21	60
Owen-Glass Currency Bill	21	65
Ownership	21	67
	22	662
right of	22	662
Pacific settlement of international disputes	15	258
Pactes de famille	11	7
Palais de justice	21	311
Panama Canal Act	7	380
	14	16
	27	498
Pandectæ Florentinæ	6	733
Pandects	21	242
Panel (juries)	21	243
Papal guarantees, law of	21	255
Papinianus Æmilius	21	269
Parcel (in law)	21	292
Parcel Post Law	21	293
Parcenary	21	294
Parlement	21	337
Parliament Bill of 1911	8	644
Parliamentary Law	21	339
Parliamentary Reform Bill of 1832	8	644
	19	589
Parsons' cause	21	351
Partnership	21	354
Partition	21	353
Party-wall	21	360
Patent, infringement of a	21	384
Patent interference proceedings	21	384
Patent Laws	21	381
Argentina	21	386
Australia	21	386
Austria	21	385
Belgium	21	385
Bolivia	21	386
Brazil	21	386
British India	21	386
Canada	21	385
Chile	21	386
China	21	387
Columbia	21	386
Cuba	21	386
Denmark	21	386
Ecuador	21	386
France	21	385
Germany	21	385
Great Britain	21	383
Holland	21	386
Hungary	21	385
Italy	21	385
Japan	21	387
Mexico	21	386
New Zealand	21	386
Norway	21	386
Panama	21	386
Paraguay	21	386
Peru	21	386
Philippines	21	386
Porto Rico	21	386
Portugal	21	386
Russia	21	386
South Africa	21	387
Spain	21	386
Sweden	21	386
Switzerland	21	386
Uruguay	21	387
Venezuela	21	387
Patent office registration	26	751
Patent, term of a	21	382
Patented articles	21	384
	26	752
Patents, commissioner of	21	384
German	21	383
mining claim	19	187
the laws of	21	381
Pater familias	11	5
Patria potestas	11	5
Pawn	22	244
Pawnshops, French laws regulating	13	93
	13	94
	13	95
	13	96
Payment	21	432
Payne-Aldrich Tariff Bill	5	361
Peace conference, first, Hague	15	258
Peace Treaties	21	441
Pendente lite	15	136
	17	240
Penn v. Baltimore	21	516
Pension agencies	21	548
Per capita	25	781
Perpetuating testimony	17	240
Perpetuity	21	604
Personal Liberty laws	21	631
Personal property	22	663
	25	781
Personal representative	17	234
Per stirpes	25	781
Peru treaties	7	402
Petition, right of	21	672
Pilotage	18	295

General — cont'd	Vol.	Page
Pious fund of the Californias	15	259
Placer claims	19	156
	19	186
Plagium	22	140
Plaintiff and defendant	17	240
Plaster of Paris Act	8	206
Play censorship	22	242
Plea and pleading	22	243
Pleading, special	22	243
Pledge	22	244
Police power	22	303
Poor Law	13	221
Poor Law of 1834	25	509
Popular sovereignty	25	464
Positive law	16	258
Possession	22	422
	22	662
Postal Money Order Act	22	432
Postal Savings Act of 25 June 1910	22	424
	22	436
Post-Obit bond	22	423
Postulation	22	438
Poynings' Law	15	318
	22	499
Pragmatic sanction	22	502
Precarious right	17	240
Pre-emption Law, United States	22	517
Prerogative (in law)	22	533
Prescription (in law)	22	545
Prescription Act, 1832	22	545
President	22	546
Presidential Succession Act, United States	22	548
Press, censorship of	6	193
freedom of	22	554
Presumption	22	562
Previous question	22	565
Primogeniture	22	579
Private law	22	768
Privilege	22	612
Privileged communications	22	613
Privileges and immunities	22	613
Privy Council	22	613
history of	22	614
Prix d'entree	5	421
Prize	22	615
courts	22	615
jurisdiction	22	615
Probate	22	624
Procedure	22	626
in admiralty	22	627
in civil actions	22	626
Procés verbal	17	240
Process (in law)	22	627
Proctor	8	98
	22	632
Profert	22	632
Prohibiting importation of slaves	24	502
Prohibition	22	638
Promise	22	654
Promissory note	22	654
Promoter	22	654
Proof	2	227
Property Law, American	22	663
English	22	663
mediæval	22	662
modern	22	662
Property, laws of	22	660
primitive law	22	660
Proposition d'erreur	5	708
Protection abroad to naturalized citizens	19	773
Protest	22	680
Prothonotary	22	690
Protonotary	22	690

General — cont'd	Vol.	Page
Public Health Act of 1875	23	58
Public lands	22	765
	22	766
	22	767
grants for education	22	767
military warrants	22	767
naval warrants	22	767
reservations	22	767
Public law	22	768
Public Library Acts	22	769
Public Opinion Bills	17	249
Public utilities, commissions	22	782
discriminations	22	780
equality of service	22	781
franchise value	22	781
rebates	22	780
refusal to serve	22	780
regulation of rates	22	780
rights of	22	780
special privileges	22	779
special rules of liability	22	780
Public Worship Regulation Act	23	545
Publican Law	17	124
Puisne judge	22	794
Pure Food Acts	23	26
Pure Food and Drug Acts, Federal	18	482
	21	708
	23	26
Quadriennium utile	23	53
Quadruple Alliance	23	54
Quarantine	23	57
Act, Interstate	23	58
Act of 1825 (English)	23	58
Quartering Acts	23	63
Quasi-contract	23	65
Quebec Act	5	417
	5	418
	23	77
Quebec judiciary system	23	73
Queen's counsel	8	98
Quiet enjoyment	17	240
Quint	5	421
Quit-claim	23	99
Quorum	23	101
Quo warranto	17	240
	23	100
Raid	23	13
Railroad Control Law	23	167
Railroads, government regulation of	27	496
Railway Law, first	23	159
Raine's Liquor Law	23	185
Rate	17	240
discrimination, forms of	22	782
Ratification	23	225
Rationalism, era of	17	127
Readjuster Bill (Va.)	23	248
Real covenant	17	240
Real property	22	663
Realty	23	259
	25	781
Rebutting evidence	17	240
Recall	17	250
in South Dakota	23	267
of judicial decisions	23	267
petitions in Oregon	23	266
Receipt	23	268
Receiver	23	268
Receivership	23	268
Reclamation Act	14	556
	15	393
	15	399
Reclamation Laws	23	270
Record	23	271
Recorded deeds	23	273

General — cont'd	Vol.	Page
Recorder	23	271
Recording Acts	23	271
Recording of conveyances or deeds	23	271
Recoupment	17	240
Recusants	23	276
Re-entry	23	297
Referee	23	298
Referendum	23	298
in Colonial days	23	299
Reform Act of 1832, English	13	201
	23	324
Reform Bills	23	301
Refunding Act	27	424
Refutation	2	230
Registration of property titles	23	323
Registration of voters	23	324
Registry of vessels	23	324
Rejoinder	17	240
Relative civil rights	23	521
Release	23	341
Relief	23	241
Act (English)	8	76
Remainder	23	363
Rem, proceeding in	16	256
Rent, law of	23	381
Renunciation	23	382
Act of 1783	25	40
Repeal	23	383
Replevin	17	240
	23	384
Replication	23	384
Representation	23	386
Reprisals	23	387
Reputed ownership	23	407
Request, letters of	23	407
Requite civile	5	708
Requites	5	708
Rescission	23	409
Rescript	23	409
Rescue	23	409
Reservation	23	409
Residue	23	412
Res judicata	6	736
	23	407
Res mancipiæ	22	661
Res nullius	22	662
Respondent	23	419
Restraint of marriage	23	421
Restraint of trade	23	421
Restrictive legislation	14	714
Resumption Act, 1875	23	422
Reversion	23	447
Revised Statutes of the United States	23	447
Rhodes, Law of	23	474
Rhodian sea law	23	474
Riders	23	510
Right	23	519
Right in personam	16	259
Right of navigation	23	552
right of river passage	23	553
Right of search	23	520
by belligerents	24	487
Right of way	23	521
Rights, absolute	23	521
civil	23	521
in rem	16	259
legal	23	522
of persons	16	258
of things	16	258
Riparian rights, common law of	23	535
	29	22
River accretions, ownership of	23	553
Rivers, boundaries	23	553
fishing rights in	23	554
general law of	23	552

General — cont'd	Vol.	Page
navigable in fact	23	552
navigable in law	23	552
non-navigable	23	553
rights of owners on	23	553
public easement of passage	23	553
right to bridge	23	553
right to dam	23	553
use of banks and shores	23	553
Roads Aid Act, Federal	23	559
Bobber, marriage	18	315
Roe, Richard	9	222
Roman Law of the Twelve Tables	17	124
Royal assent	2	421
Rule nisi	23	764
Rule of navigation	23	553
Rule to show cause	23	764
Rural Credits Bill	14	319
Rural credit laws	4	707
Russia fundamental laws	24	42
Ryotwar	24	74
Sachsenspiegel	24	88
Safety in industry	16	596
Sale of Goods Act	24	182
Sales	24	182
Salic Law	16	259
	24	183
	25	336
Salvador Treaty	7	402
Salvage	17	240
	18	295
Sanhedrin	24	261
Satisfaction	24	312
Scapegoat	24	353
Scire facias	24	423
Scotch law	13	282
	24	427
Scribes, Jewish	24	455
Seal	8	12
Sealing regulations	24	485
Seaman contract	24	487
Seamen's Act	24	487
Search, right of	24	487
Seas, freedom of	24	490
Secession	24	500
Second Hague conference	15	258
Sedition Law of United States	27	318
	27	355
Seigniorial tenure	5	426
Seignory	24	532
Seisin	24	532
Selective Draft Law	24	535
Selective Service Law	24	535
	27	515
amendments to	24	537
Sempronian Law	13	102
Separate maintenance	17	240
Septennial Act	24	575
Septennate Act	24	574
Sequester	22	661
Sequestration	24	576
Serbian Treaty (1881)	7	401
Sergeants-at-law	8	98
Servitude	24	605
Settled land laws, English	13	261
Shareholder	25	660
Shareholders, liability of	25	660
Shelley's case, rule in	24	691
Sherman Act	11	84
	13	13
	24	707
Sherman Anti-Trust Law	23	167
Sherman Law, prosecutions under	27	114

General — cont'd	Vol.	Page
Sherman Silver Purchase Act	27	425
Ship Registry Act	24	724
Shop Hours Act	17	711
Sickness Insurance Law	16	598
Sidonian schools	17	130
Siete partidas	6	734
Silver Purchase Act	27	425
Slander	25	81
Slaughter house cases	25	87
	27	438
Smith-Hughes Act	14	333
	14	334
	24	388
	28	161
Smith-Lever Agricultural Extension Act	25	130
Smith-Lever Extension Act	14	333
Smoke nuisance	25	135
Social legislation	25	164
Soldiers, naturalization of	19	772
Solicitor	8	98
Solon	25	244
South Africa Act	27	288
Spanish Civil Code	25	351
Spanish Civil Procedure	25	352
Spanish Code of Civil Procedure	25	352
Spanish codes, ancient	25	352
Spanish Commercial Code	25	352
Spanish Criminal Law	25	352
Spanish Judiciary Act	25	352
Spanish Law	25	351
Spanish Notarial Law	25	352
Speaker	25	365
Specie circular	25	366
Specie resumption	25	366
Specificatio	22	662
Specification	17	240
	25	371
Specific performance	25	371
Spooner Bill	21	284
Sporting rights, English	13	268
Squatter	25	464
sovereignty	25	464
SS.	24	75
Stamp Act, English	25	475
Stamp fakes	25	477
Stamp forgeries	25	477
Stannary courts	25	480
Star chamber	25	489
Star route postal cases	4	88
State and Territorial Boundaries Act	4	340
State Aid or State Highway Law	13	54
State constitutions	27	456
State constitutions, formation of	27	342
State courts	8	118
organization of	25	516
State judges, methods of choosing	27	357
State judiciary	25	516
State legislature	2	420
State regulation of railroads in United States	27	498
Statute	25	538
of labor	17	127
of merchants	17	127
of Merton	17	127
of Victuallers	17	127
Statutory Law	28	17
Stay proceedings	15	136
Stock (in law)	25	656
Stockholder	25	660
Stoppage in transitu	17	240
	25	696

General — cont'd	Vol.	Page
Submarine vessels, employment of	15	262
Subpœna	25	775
Subscription	25	775
Subsidies	25	775
Substantive law	16	259
Succession	25	781
Suffrage, rights of naturalized citizens	19	773
Summons	26	14
Sumptuary laws	26	18
Supervision of courts	26	56
Supplementary proceedings	26	50
Supremacy, royal	26	52
Supreme Court jurisdiction	26	55
Supreme Court of Judicature	26	52
Supreme Court of the District of Columbia	8	117
Supreme Court of the United States	8	120
	26	52
Suretyship	26	61
Surrogate	26	91
Surrogate's Court for the Borough of Manhattan	8	119
Survivorship, doctrine of	16	190
Suspension	8	100
	26	102
Swamp land grants	26	108
Sweating system	16	596
Sweet Bill	28	688
Swiss Bundes-Gericht	26	149
Swiss Code	17	128
Swiss judicial system	26	149
Syndicate Law	16	599
Tales de Circumstandibus	26	224
Talesman	26	224
Talmud, The	16	86
Talouk	26	231
Taluk	26	231
Tariff Act	26	468
of 1789	25	295
of 1913	14	425
Tariff laws	26	271
Tax deed	26	287
Temperance legislation	26	404
Temporary convention	7	401
Tenancy	26	412
Tenant right	26	412
Tender	17	240
	26	412
Tenement House Act, first	4	88
of 1892	7	127
Tenement House, law enforcement	26	414
Tenens precario	22	661
Tenure	22	662
	26	489
of office acts	26	439
	27	480
Term	26	443
Terminus	26	443
Territorial waters	14	179
Testimony	2	229
	29	453
psychology of	26	454
Teutonic tribes, law of	11	6
Thellusson Act, government	26	506
Theory of divorce	17	125
Threat	26	592
Tichborne trial	26	607
Tidewater	26	617
Timber and Stone Law	26	628

General — cont'd	Vol.	Page
Title deed	26	651
Title registratio.n	26	651
Title to land	23	259
Toft	26	668
Toleration Act	26	675
Torrens system of land registration	2	580
	16	700
	26	708
Torts	8	10
	26	713
Trade Boards Act	25	511
Trade-mark, how property is acquired	26	751
Law	26	752
Trade-marks	26	748
assignment of	26	751
correct use of	26	750
defenses	26	751
kinds of	26	750
philosophy of the law of	26	752
State laws	26	752
Trade, restraint of	23	421
Transfer	17	240
Transfer of flag	18	295
Transvaal mining titles	27	12
Treasure-trove	22	663
	27	23
Treaties	27	25
as a source of international law	27	25
kinds of	27	27
of alliance	27	27
of commerce	27	27
of peace	27	27
of the United States with foreign nations	27	30
ratification of	27	26
reciprocity	27	27
right to make	27	25
Treaty	27	33
Treaty-making power of the United States	27	25
	27	33
Treaty powers	27	27
transactions	27	25
validity of	27	27
Trésor	22	663
Trespass	27	49
Trial, legal	27	52
Tribunal de Cassation	5	708
Triennial Act	27	55
Trover	27	97
Trust deed	27	110
Trustee	27	108
Trusts	27	108
control of	27	113
growth of	27	113
Tucker Act	4	366
Turnpike Act of 1663	23	558
Tutor	27	212
Twelve Tables, Law of the	23	668
	27	218
Two-thirds rule	27	229
Udal	27	251
Ukase	27	254
Ultimatum	17	240
Ultra vires	27	264
Under and subject	17	240
Underwood Tariff Act	9	143
Undue influence	27	276
Unfair trade competition	26	752
United States Commerce Court	27	551
United States, Constitution of	14	183

General — cont'd	Vol.	Page
United States Constitution, Thirteenth Amendment	27	434
Fourteenth Amendment	27	321
	27	434
	27	435
	27	436
Fifteenth Amendment	27	321
	27	434
	27	436
Sixteenth Amendment	27	623
Seventeenth Amendment	17	323
Eighteenth Amendment	22	639
validity and enforcement of Thirteenth, Fourteenth and Fifteenth Amendments	27	437
United States Customs Court	27	551
University of Bologna	17	130
Uruguay, judicial system	27	602
treaties	7	402
Use	27	606
Usucapio	22	662
Usufruct	27	608
Vadium mortuum	17	240
Vehmgerichte	27	720
Vehmic courts	27	720
Venezuela treaties	7	402
Venue	28	8
Verdict	28	13
Vessels, entry and clearance of	28	44
registry of	18	295
	23	324
transfer of ownership	18	295
Vested rights	28	45
Virginia resolutions	27	313
Vis major	28	131
Voire dire	28	169
Voluntary conveyance	28	179
Voters, registration of	23	324
Voucher	28	193
Wade-Davis Bill	27	429
Wager	28	208
Wagering policy	28	206
War, articles of	14	183
instrumentalities and methods of	28	670
laws and usages of	17	150
prize regulations	23	521
Warehouse Act	28	702
Warehouseman	28	702
Warranty	28	707
Warren	28	711
War Risk Insurance Act	28	684
War Tariff	28	689
War Zones	28	691
Warwick patent	6	338
Washington State Judiciary	28	785
Wason Bill	28	688
Watercourses	29	69
Water laws	29	21
Webb-Kenyon Act of 1913	22	638
Weeks Law	11	482
	11	483
Wharfingers	18	295
William and Mary College	17	130
Will	29	324
Wills, English law of	15	262

General — cont'd	Vol.	Page
Wilson Bill	29	368
Wilson Original Package Act of 1890 (Liquor)	22	638
Without prejudice	17	240
Witness	29	433
Women, legal rights of	29	457
Woolsack	29	507
Workmen's Compensation Act	16	598
	25	511
	29	520
Wreck	29	565
Wreckage	29	566
Writ	8	116
	29	572
Writers to the signet	29	572
Wyndham's Land Act, Ireland	15	321
Yale Law School	17	131
Yielding and paying	17	240
Zamora	15	255
See also **Government and Political Science.**		

Crimes and Punishments

	Vol.	Page
Abandonment	1	7
Abduction	1	30
Abductor	1	30
Abortion	1	46
Absconding	1	52
Accessory	1	69
Accomplice	1	77
	17	235
Accusation	1	82
Acquittal	1	102
Adulteration	1	156
Adultery	1	161
Aiding and abetting	17	235
Alias	1	399
Alibi	1	399
Alien and Sedition Laws	11	86
Amende honorable	1	477
Anti-Narcotic Act (Harrison)	9	344
Anti-Trust Laws	2	41
	25	511
Arraignment	2	325
Arrest	2	327
	2	519
Arson	2	334
	14	445
	14	739
Assassination	2	411
Assault	2	412
Attainder	2	520
Attaint	2	520
Attempt	2	521
	17	236
Auburn State Prison	22	607
Autrefois convict	2	669
Bail	3	49
justifying	17	239
Bailment	3	53
Banishment	3	146
Barratry	3	276
	18	295
Bench warrant	3	501
Bilboes	15	389
Bigamy	3	694
Bill of indictment	3	706
Black Hand	25	204
Blackmail	4	44
Blasphemy	4	64
Blasphemy Act	2	69
Blood-money	4	110
Blood stain tests	4	112
Body-snatchers	23	427
Bollman's case	4	193
Breach of peace	4	446
Breaking bulk	4	452
Bribe	4	488

Crimes and Punishments — cont'd	Vol.	Page
Bribery	4	488
Burglary	5	40
	14	445
Camorra	5	268
	25	202
Catusse-Menegant	25	205
Cause Célèbre	6	182
Chambre de Cassation Criminelle	5	708
Chance-medley	6	276
Cheat	17	236
Chee Kung Tong	25	204
Chinese Masons	25	205
Christiana Case	6	615
Circumstantial evidence	2	230
	6	695
Clayton Anti-Trust Act	2	43
Close time	7	125
Collusion	17	236
Commitment	7	405
Compounding a felony	7	447
Confession	7	494
Conjuration	7	523
Connivance	17	237
Conspiracy	7	550
Contempt	7	584
Contumacy	7	601
Coroner	7	720
Corporal punishment	8	1
Corpus delicti	8	17
Corrupt Practices acts	8	21
British	8	21
United States	8	21
Corsned, or Morsel, of Execration	8	24
Counterfeiters	24	515
Counterfeiting	8	103
Crime	8	192
cosmic and social factors in	8	200
individual factors in	8	201
protection against	19	581
Crimes, infamous	15	112
Criminal Appeal Act of 1907 (English)	22	627
Criminal conversation	8	196
Criminal law	8	196
	17	237
	22	768
Criminal, modern treatment of	8	208
Criminal Procedure, Code of	8	199
English	22	626
Criminal societies	25	201
Criminelle, Le Code d'Instruction	6	735
Criminology	8	200
Crucifixion as a punishment	8	258
Cruelty (in law)	8	254
Debt, imprisonment for	14	729
Declaration, dying	8	561
Deemster	8	576
Desertion	9	8
Disfranchisement	9	164
Disturbance	9	194
Demboc	9	240
Doom-book	9	240
Drowning (as punishment for crime)	9	341
Drunkenness	9	354
Ducking stool	9	380
Duke of Exeter's Daughter	9	391
Edmunds Anti-Polygamy Act	9	590
Elmira Reformatory	22	609
Elopement	10	265
Embezzlement	10	274
Embracery	10	275

Crimes and Punishments — cont'd	Vol.	Page
Empalement	10	299
English "Borstal" system	22	610
English Criminal Code	8	199
Engrossing	10	389
Escape	10	490
Execution	10	621
Executioner	10	621
Extortion	10	672
Extradition	10	673
interstate	10	673
False imprisonment	10	736
False personation	10	736
False pretenses	10	736
Felony	11	105
	11	160
	11	487
	14	340
compounding	7	447
Fine	11	217
Flogging	11	380
Food and drink, adulteration of	11	429
Food and Drugs Act	11	430
Philippine Islands	11	452
Porto Rico	11	452
(State)	11	447
Food Law, District of Columbia	11	448
Hawaii	11	448
Forestalling	11	476
Forgery	11	488
Fornication	11	496
Frank-pledge	13	603
Fraud	12	26
orders, postal	12	26
positive	17	240
prevention of	12	26
Frauds, Statute of	12	27
French Penal Code	11	622
Fugitive	12	149
Game Law, National	12	264
Game Laws	12	263
Garrote	12	299
Gibbet	12	638
Grand jury	16	261
Guillotine	13	538
Guilt	13	538
Habeas corpus	13	602
	17	238
Habitual criminals	17	239
Hanging	13	677
Highbinders	14	183
	25	204
High treason	14	181
Homicide	14	340
excusable	14	340
justifiable	14	340
House of correction	14	446
	22	605
Hue and cry	14	473
Hush money	14	526
Illegality	14	690
Immorality	14	716
Imprisonment	14	729
Incendiarism	14	739
Incest	14	740
Indeterminate sentence	14	749
Indictment	15	65
Infamy	15	112
Infanticide	15	116
Information	15	125
Informer	15	125
Infringement	15	126
Irons	15	389
Jeopardy	16	16
	17	239
Justification	16	266
Kidnapping	16	401

Crimes and Punishments — cont'd	Vol.	Page
King's (or Queen's) evidence	16	445
	25	527
Kleptomania	16	472
Knout	16	492
Labor a jury	17	239
Larceny	18	746
Lacey Game Law	12	264
Lese majesty	17	239
Lombroso	8	201
Lord's Day legislation	26	32
Louisiana lottery	11	48
Lynch Law	17	776
Lynch, "Judge"	17	777
Mafia	25	202
Maine (Prohibition) Law	9	286
Mainour	17	239
Malfeasance	17	239
Malice	14	340
	18	165
Malicious Damage Act	14	739
Malicious mischief	18	166
Malpractice	17	239
Malum in se	17	239
Manslaughter	14	341
	18	236
Massacre	18	413
Mayhem	18	466
Mazzini	25	203
Miscarriage	19	225
Misdemeanor	11	105
	19	225
Misfeasance	17	239
	19	226
Misprision	19	227
Mittimus	19	273
Murder	14	340
Conspiracy Act	12	678
Mutiny	18	295
	19	656
Nolle prosequi	20	392
Non-feasance	17	240
	20	394
Northern Securities Company, prosecutions	27	114
Oblonica	25	208
Obscenity	20	546
Offenders, treatment of, original motive	23	18
Offenses, political	22	309
Old Bailey	13	217
Ordeal	20	752
Outlawry	21	55
Oyer and terminer	17	240
Pains and Penalties, Acts of	21	107
Pardon	21	296
Parole	21	341
Parricide	21	343
Particeps criminis	17	240
Penal Code	8	199
Peine forte et dure	21	473
Penal, Le Code de Commerce Le Code	6	735
Penal servitude	14	729
Penalty	21	494
Penitentiary, Eastern Pennsylvania	22	608
Perduellio	22	309
Pennalism	21	516
Peremptory challenge	17	240
Perjury	21	599
subornation of	17	240
Podiatry (in law)	22	270
Police	22	301
power	22	303
limitation of	22	303
Political offenses	22	309
Posse comitatus	7	208
	22	422

Crimes and Punishments — cont'd Vol. Page

Præmunire 22 502
Presentment 22 546
Prevention of Crimes (Irish law) 15 321
Prisons 22 605
English 22 606
Prison system, Auburn. 22 607
Irish 22 609
modern 22 610
Pennsylvania 22 607
silent 22 607
Prison, Walnut Street in Philadelphia 22 607
Probation 22 624
Procurator, fiscal 22 632
Prosecuting attorney, local 2 526
Prosecutor 22 669
Provost 22 711
Public worship, disturbance of..... 9 194
Punishment 23 17
ancient Roman..... 23 19
capital 23 19
in western countries 23 18
Pure Food Law..... 11 446
Racks 23 114
Rape 23 215
Receiving stolen goods. 23 269
Recidivists 23 269
Recognizance 23 271
Recusants 23 276
Reformatory schools.... 23 304
Regicide 23 321
Reprieve 23 367
Rescue 23 409
Resurrectionists 23 427
Retribution (in law) ... 23 436
Revolutionary Tribunal. 23 449
Reward 23 450
Rioting 23 535
Robbery 23 564
Sacrilege 24 98
Sam Hop Tong..... 25 204
Sanctuary, privilege of. 24 248
Search warrants..... 24 488
Secret Service..... 24 515
Sedition 24 525
Seduction 24 525
Self-defense 14 341
24 541
Sentence 24 573
Seven Sisters Acts..... 2 42
Sherman Anti-Trust Act 2 42
4 372
27 111
Sherman Law, prosecutions under..... 27 113
Slaves, prohibiting importation 24 502
Smuggling 25 139
Societies, criminal..... 25 201
Spanish Criminal Law.. 25 352
Standard Oil Company $29.000,000 fine..... 27 115
State's evidence..... 25 527
Stocks 25 662
Suicide 14 340
25 806
Summary proceeding ... 26 12
Sunday Laws, mediæval. 26 31
Sunday legislation..... 26 31
Surrender 26 90
Swearing, profane..... 26 112
Thaw case..... 26 489
29 268
Theft 26 505
Thiberts 25 205
Thief 26 551
Threat 26 592
Ticket-of-Leave 26 608

Crimes and Punishments — cont'd Vol. Page

Torture 26 714
legalized 26 714
principal modes of.. 26 714
Trade, restraint of..... 23 421
Transportation for crime 27 9
Treadmill 27 21
Treason 11 487
27 22
alien 27 22
limitation as to punishment 27 22
overt act of..... 27 22
petit 27 22
Statute of 27 22
True bill..... 17 240
Unfair competition..... 11 85
Unlawful detention..... 14 729
Usury 27 608
27 611
Vagrancy 27 640
Vice, protection against. 19 581
Vice, regulation of..... 28 58
Vigilance committee.... 28 84
Wager policy..... 28 208
Warrant 28 706
Webb-Kenyon Law..... 29 144
Wergild or Weregild.. 29 193
Wheel, breaking on the. 29 247
Whipping post..... 29 256
Worcester v. Georgia... 29 514
Workhouse 29 519
Writ de homino replegiando 13 603

Biographies

UNITED STATES

Abbott, Austin 1 16
Abbott, Benjamin Vaughan 1 17
Abbott, Nathan..... 1 19
Alvey, Richard Henry.. 1 459
Ames, Samuel..... 1 570
Andrews, Charles Bartlett 1 674
Andrews, George Pierce 1 675
Angell, Joseph Kinnicut 1 682
Anthony, Henry Bowen. 2 16
Arnold, Isaac Newton.. 2 315
Ashley, William H..... 2 386
Ashmun, George..... 2 387
Ashurst, Henry Fountain 2 388
Atchison, David Rice... 2 488
Atherton, Charles Gordon 2 497
Austin, Henry..... 2 561
Austin, James Trecothic 2 562
Balch, Thomas Willing. 3 74
Baldwin, Simeon Eben. 3 77
Ballinger, Richard Achilles 3 100
Barbour, Philip Pendleton 3 239
Bates, Edward..... 3 329
Baxter, Jere..... 3 357
Baylor, Robert Emmett Bledsoe 3 365
Beach, Charles Fisk, Jr. 3 371
Beach, Miles..... 3 371
Beardsley, Samuel..... 3 382
Bedford, Gunning..... 3 414
Bell, Clark 3 474
Belmont, Perry..... 3 493
Benjamin, Judah Philip 3 517
Bennett, Edmund Hatch 3 519
Bennett, Samuel Crocker 3 520
Benson, Egbert 3 523

Biographies — cont'd Vol. Page

Berrien, John Macpherson 3 577
Betts, Samuel Rossiter. 3 596
Bibb, George M..... 3 612
Biddle, Arthur..... 3 685
Bigelow, Melville Madison 3 696
Bigelow, Timothy (2d).. 3 697
Biggs, Asa..... 3 697
Binney, Horace..... 3 716
Black, Charles Clarke... 4 30
Black, Frank S..... 4 30
20 209
Blaine, James Gillespie. 4 52
Blair, Francis P., Jr... 9 322
Blair, John..... 8 122
Bland, Richard Parks... 4 61
Blatchford, Samuel..... 4 71
Bliss, George..... 4 88
Bonaparte, Charles J... 4 208
Bonney, Charles Carroll 4 221
Botts, John Minor..... 4 319
Boudinot, Elias Cornelius 4 323
8 122
Bouvier, John 4 356
Bowers, Lloyd Wheaton 4 363
Brackenridge, Henry Marie 4 382
Brackenridge, Hugh Henry 4 382
Bradford, William 4 386
Bradley, Joseph Philo.. 4 388
Brady, James Topham. 4 391
Bragg, Edward Stuyvesant 4 392
Brandeis, Louis Dembitz 4 411
Brannon, Henry 4 415
Brent, Richard..... 4 467
Brewer, David Josiah.. 4 474
Brewster, Benjamin Harris 4 485
Brewster, Frederick Carroll 4 486
Brightly, Frederick Charles 4 540
Brinkerhoff, Roeliff B.. 4 542
Brockenborough, William V..... 4 571
Brooks, Preston Smith. 4 596
Brown, Addison..... 4 602
Brown, George William. 4 605
Burdick, Francis Marion 5 35
Burnet, Jacob..... 5 55
Butler, Marion..... 5 81
Campbell, James Valentine 5 279
Campbell, John Archibald 5 279
Carrington, Edward Codrington 5 671
Carrington, Henry Beebee 5 672
Carrington, Paul..... 5 672
Carson, Hampton Lawrence 5 675
Carter, James Coolidge. 5 678
Chase, George..... 6 342
Chase, Salmon P..... 8 122
Cheves, Langdon 6 431
Chilton, William Edwin 6 513
Chipman, Nathaniel.... 6 562
Choate, Joseph H..... 6 580
Choate, Rufus..... 6 580
Clark, Clarence Don.... 7 40
Clark, Walter..... 7 44
Clarke, John Hessin.... 7 48
Clayberg, John Bertrand 7 73
Clayton, Augustine Smith 7 74

Biographies — cont'd	Vol.	Page
Clayton, Henry De Lamar	7	74
Cleveland, Chauncey F.	7	92
Cleveland, Grover	7	92
Clifford, Nathan	7	168
Cobb, Thomas R. R.	7	174
Cockran, William Bourke	7	187
Colden, Cadwallader David	7	241
Collier, Henry Watkins.	7	265
Collins, Thomas Wharton	7	269
Colquitt, Walter T.	7	332
Colt, Le Baron Bradford	7	332
Colwell, Stephen	7	346
Cook, William Wilson	7	623
Cooley, Thomas McIntyre	7	632
Cornwallis, Kinahan	7	716
Cranch, William	8	154
Crawford, Coe Isaac	8	164
Crisp, Charles Frederick	8	210
Curtis, Benjamin Robbins	8	316
Curtis, John Ticknor	8	317
Cushing, Luther Stearns	8	334
Cushing, William	8	122
	8	334
Daly, Charles Patrick	8	424
Daly, Joseph Francis	8	424
Dalzell, John	8	424
Dana, Francis	8	444
Dana, Richard Henry	8	445
Dane, Nathan	8	450
Dargan, Edmund Spawn	8	473
Darrow, Clarence S.	8	481
Davless, Joseph Hamilton	8	507
Davis, Cushman Kellogg	8	508
Davis, David	8	508
Davis, Henry Winter	8	509
Davis, Reuben	8	512
Dawes, Henry Laurens.	8	515
Day, William Rufus	8	519
Dayton, William Lewis.	8	522
Dean, Amos	8	537
De Forest, Robert Weeks	8	593
De Lacy, William Henry	8	605
Deneen, Charles Samuel	8	677
Denio, Hiram	8	678
Dennis, William Cullen.	8	686
Devens, Charles	9	36
De Vries, Marion	9	44
Dickinson, Donald McDonald	9	83
Dillon, John Forrest	9	122
Dinsmore, Hugh Anderson	9	130
Dix, John A.	9	209
	20	210
Dixon, James	9	211
Dixon, Joseph Moore	9	211
Doddridge, Philip	9	219
Dole, Sanford Ballard	9	234
Dolph, Joseph Norton	9	239
Dos Passos, John Randolph	9	270
Drake, Charles Daniel	9	301
Draper, Andrew Sloan	9	311
Drayton, William	9	320
Duane, James	9	367
Dudley, Paul	9	382
Duer, John	9	386
Duer, William Alexander	9	386
Dulany, Daniel	9	392
Duponceau, Peter Stephen	9	411
Durfee, Thomas	9	424
Durrett, Reuben Thomas	9	426
Dutton, Henry	9	440
Dwight, Theodore William	9	446
Dyer, Eliphalet	9	450
Eames, Charles	9	475
Earle, Thomas	9	487
Eaton, Dorman Bridgman	9	517
Edmunds, George Franklin	9	590
Elkus, Abram Isaac	10	251
Elliot, Benjamin	10	253
Ellis, Powhatan	10	257
Ellsworth, Oliver	8	122
	10	258
Emery, John Runkle	10	291
Emmet, Thomas Addis.	10	297
Endicott, William Crowninshield	10	320
Endlich, Gustav Adolf	10	320
Evarts, William Maxwell	10	594
Ewell, Marshall Davis	10	615
Ewing, Thomas	10	617
Farman, Elbert Eli	11	37
Farrar, Edgar Howard.	11	47
Fassett, Jacob Sloat	11	51
Faulkner, Charles James	11	63
Field, David Dudley	7	195
	11	180
Field, Stephen Johnson.	11	181
Finch, William Albert	11	216
Fisher, Sydney George	11	282
Flanders, Henry	11	332
Flower, Roswell P.	11	390
	20	209
Folger, Charles James	11	415
Folk, Joseph Wingate	11	416
Foster, Roger	11	530
Frear, Walter Francis	12	29
Freeman, Nathaniel	12	51
Freifeld, George	12	54
Frelinghuysen, Frederick	12	57
Frelinghuysen, Theodore	12	58
Fuller, Melville Weston.	8	122
	12	154
Gaines, Myra Clark	12	227
Galloway, Joseph	12	250
Gardiner, Asa Bird	12	287
Gardiner, John	12	287
Garrison, Lindley Miller	12	298
Gaston, William	12	332
Gerry, Elbridge Thomas	12	623
Gilpin, Henry Dilwood.	12	657
Glynn, Martin H.	12	734
	20	210
Goff, John W.	13	6
Goodnow, Frank Johnson	13	58
Gray, Horace	13	165
Green, Andrew Haswell.	13	421
Greene, Albert Gorton	13	427
Greene, Homer	13	428
Greenleaf, Simon	13	437
Gregory, Stephen Strong	13	458
Gregory, Thomas Watt.	13	458
Griggs, John William	13	472
Grimké, Archibald Henry	13	475
Grimké, Thomas Smith.	13	475
Griswold, Matthew	13	482
Grosscup, Peter Stenger	13	488
Grundy, Felix	13	504
Guiteau, Charles Julius.	13	541
Gunnison, Royal Arch	13	563
Guthrie, James	13	579
Hale, Ledyard Park	13	634
Hamilton, Alexander	13	654
Hamilton, Andrew	13	657
Hare, John Innes Clarke	13	706
Harlan, John Marshall.	13	709
Harmon, Judson	13	712
Harper, Robert Goodloe	13	721
Harrison, Burton Norville	13	728
Harrison, Robert H.	8	122
Hatch, William Henry	13	753
Herbert, Hilary Abner	14	119
Herndon, William Henry	14	134
Higgins, Frank W.	20	209
Hill, Benjamin Harvey.	14	187
Hill, Henry Wayland	14	188
Hoar, Ebenezer Rockwood	14	300
Hoar, Samuel	14	301
Holman, William Steele.	14	321
Holmes, Nathaniel	14	322
Holmes, Oliver Wendell, Jr.	14	323
Hopkinson, Joseph	14	373
Hough, Warwick	14	442
Howard, Jacob Merritt.	14	452
Howard, William Schley	14	454
Howe, Frederic Clemson	14	455
Howell, Clark	14	459
Huffcut, Ernest William	14	476
Hughes, Charles Evans.	14	477
	20	209
Hull, Cordell	14	485
Hutchins, Harry Burns.	14	528
Ingersoll, Jared	15	129
Iredell, James	8	122
	15	308
Irvine, Frank	15	400
Jackson, Charles	15	577
Jackson, Howell Edmunds	15	579
Jay, John	8	122
	15	760
Jay, William	15	763
Jenckes, Thomas Allen.	16	12
Johnson, Bradley Tyler.	16	169
Johnson, Charles Fletcher	16	169
Johnson, Hiram Warren	16	172
Johnson, Reverdy	16	173
Johnson, William	16	181
Johnson, William Samuel	16	181
Johnston, Frank	16	185
Jones, Leonard Augustus	16	200
Jones, Thomas	16	201
Jones, Wesley Livsey	16	202
Judson, Frederick Newton	16	287
Kane, John Kintzing	16	291
Kasson, John Adam	16	313
Keener, William Albert.	16	334
Kent, James	16	361
Kelley, William Darragh	16	341
Kellogg, Frank Billings	16	342
Kelly, Edmond	16	343
Kennedy, Joseph Camp Griffith	16	357
Key, David McKendree.	16	385
Kirchwey, George Washington	16	456
Knapp, Martin Augustine	16	477
Knapp, Samuel Lorenzo.	16	477
Knickerbocker, Herman.	16	479
Knott, A(loysius) Leo	16	491
Knott, James Proctor	16	491
Knox, John Barnett	16	497
Knox, Philander Chase.	16	497
Lamar, Lucius Quintus Cincinnatus	16	665
Landis, Kenesaw Mountain	16	701
Lane, Franklin Knight	16	713
Lane, Harry	16	713
Langdell, Christopher Columbus	16	717

Biographies — cont'd	Vol.	Page
Lansing, John	16	735
Lansing, Robert	16	736
Latrobe, John H. B.	19	97
Law, John	17	121
Lawrance, John	17	144
Lawrence, William Beach	17	148
Leavenworth, Elias Warner	17	201
Le Boeuf, Randall James	17	161
Ledyard, Lewis Cass	17	216
Lee, Blair	17	217
Lee, William Little	17	226
Lehmann, Frederick William	17	259
Letcher, John	17	319
Lincoln, Abraham	14	13
	17	445
Lincoln, Charles Perez	17	452
Lincoln, Robert Todd	17	453
Lindsay, William	17	457
Livingston, Henry Brockholst	17	541
Livingston, Robert R.	8	122
Lockwood, Belva Ann Bennett	17	563
Logan, John Alexander	17	595
Logan, Stephen Trigg	17	596
Longstreet, Augustus Baldwin	17	647
Loring, Ellis Gray	17	663
Loring, Charles Greely	17	663
Lowell, John	17	702
Lowndes, William	17	705
Lowrie, Walter	17	705
Lumpkin, Joseph Henry	17	737
Lurton, Horace Harmon	17	749
Lynch, Charles	17	776
McAdoo, William Gibbs	18	4
McCall, Edward Everett	18	19
McCammon, Joseph Kay	18	20
McChord, Charles Caldwell	18	22
McClain, Emlin	18	22
McClernand, John Alexander	18	24
McClure, Alexander Kelly	18	26
McCombs, William Frank	18	27
McCrary, George Washington	18	32
McCreary, James Bennett	18	32
McCumber, Porter James	18	33
McDaniel, Henry Dickerson	18	35
McDonald, Joseph Ewing	18	38
McKean, Thomas	18	64
McKenna, Joseph	18	66
McLane, Allan	18	74
McLean, George Payne	18	76
MacLean, John	18	77
McMichael, William	18	83
McReynolds, James Clark	18	91
Magoon, Charles E.	18	131
Mallory, Stephen Russell	18	168
Manderson, Charles Frederick	18	206
Mangum, Willie Person	18	213
Mann, Horace	18	227
Mann, James Robert	18	228
Manning, Thomas Courtland	18	230
Marshall, John	8	122
	18	326
Marshall, Louis	18	327
Marshall, Orsamus H.	18	327
Marshall, Thomas Riley	18	328
Martin, François Xavier	18	336
Martin, Luther	18	338
Martin, Thomas Staples	18	339
Martine, James Edgar	18	339
Mason, James Murray	18	381
Mason, Jeremiah	18	381
Mason, William Ernest	18	383
Masters, Edgar Lee	18	418
Mather, Robert	18	436
Mathews, Abert	18	437
Matthews, Stanley	18	444
Means, David MacGregor	18	479
Meek, Alexander Beaufort	18	591
Meigs, William Montgomery	18	597
Meline, James Florant	18	604
Merwin, Henry Childs	18	683
Miller, Samuel Freeman	19	121
Miller, William Henry Harrison	19	123
Mills, Roger Quarles	19	129
Minor, Lucian	19	209
Minot, George	19	211
Minot, George Richards	19	212
Mitchell, John H.	19	267
Moody, William Henry	19	422
Moore, Alfred	19	428
Moore, John Bassett	19	432
Morawetz, Victor	19	442
Morgan, John Tyler	19	453
Morgenthau, Henry	19	457
Morrill, Justin P.	9	593
Morrison, John Tracy	19	480
Morrison, William Ralls	19	481
Morrow, William W.	19	482
Morton, Levi P.	20	209
Moseley, Edward Augustus	19	497
Moss, Frank	19	508
Murdock, Victor	19	604
Murphy, Archibald De Bow	19	607
Myers, Henry L.	19	659
Needham, Charles Willis	20	38
Nelson, Knute	20	65
Nelson, Samuel	20	66
Nicholas, Wilson Cary	20	316
Nicholls, Francis Tillon	20	317
Nicolls, Mathias	20	329
Niles, Nathaniel	20	348
Noble, John Willock	20	385
Nott, Charles Cooper	20	459
Noyes, Walter Chadwick	20	480
Noyes, William Curtis	20	480
Nugent, John F.	20	483
O'Conor, Charles	20	572
Odell, Benjamin B., Jr.	20	209
O'Gorman, James Aloysius	20	608
Oliver, George Tener	20	665
Oliver, Peter	20	666
Orr, James Lawrence	21	10
Orth, Godlove Stoner	21	12
Osborn, Thomas Ogden	21	17
Osgood, Samuel	21	19
Overman, Lee Slater	21	59
Owen, Robert Latham	21	65
Page, Carroll Smalley	21	96
Page, John	21	96
Parker, Alton Brooks	21	325
Parsons, John Edward	21	349
Parsons, Theophilus	21	350
Paterson, William	21	390
Patrick, Albert T.	21	403
Payne, Sereno Elisha	21	434
Peck, George Record	21	462
Peckham, Rufus William	21	463
Peckham, Wheeler Hazard	21	464
Peixotto, Benjamin Franklin	21	475
Pendleton, Edmund	21	501
Penfield, William Lawrence	21	507
Pennypacker, Samuel Whitaker	21	539
Penrose, Boise	21	543
Pepper, George Wharton	21	564
Pershing, Cyrus L.	21	612
Peters, Richard	21	664
Petigru, James Louis	21	671
Pettigrew, Richard Franklin	21	697
Phelps, Charles Edward	21	718
Phillips, Henry Myer	21	762
Phillips, Philip	21	763
Pierrepont, Edwards	22	76
Pitney, Mahlon	22	122
Pomeroy, John Norton	22	341
Porter, Alexander	22	388
Post, Melville Davisson	22	423
Potter, Robert B.	22	453
Powderly, Terence Vincent	22	475
Preston, William	22	560
Pritchard, Jeter Connelly	22	611
Prouty, Charles Azro	22	697
Pryor, Roger Atkinson	22	724
Pusey, Caleb	23	32
Putnam, William Le Baron	23	35
Quincy, Josiah	23	92
Quitman, John Anthony	23	99
Randolph, Edmund Jennings	23	208
Raum, Green Berry	23	231
Rawle, Francis	23	236
Rawle, William	23	236
Rawle, William Henry	23	236
Ray, George Washington	23	238
Rayner, Isidor	23	241
Read, George	23	245
Read, John Meredith	23	245
Reavis, James Bradly	23	264
Redfield, Isaac Fletcher	23	287
Reeve, Tapping	23	297
Reno, Conrad	23	378
Rice, Isaac Leopold	23	485
Richardson, William Adams	23	496
Riddle, Albert Gallatin	23	509
Ripley, Eleazar Wheelock	23	535
Rives, George Lockhart	23	555
Roberts, Oran Milo	23	569
Robertson, William H.	23	573
Rochester, Nathaniel	23	589
Rodney, Cæsar Augustus	23	623
Rodriguez, José Ignacio	23	623
Rogers, Henry Wade	23	628
Roosevelt, Robert Barnwell	23	680
Roosevelt, Theodore	23	680
Root, Elihu	23	686
Rudd, William Platt	23	751
Rumsey, William	23	774
Rutledge, John	8	122
	24	68
Ryan, Edward George	24	70
Sanborn, Walter Henry	24	248
Sanger, Adolph L.	24	260
Sargent, Winthrop	24	304
Saulsbury, Willard	24	318
Sayles, John	24	344
Schoeneck, Edward	24	384
Schouler, James	24	401
Sedgwick, Arthur George	24	523
Sedgwick, Theodore	24	524
Sewall, Samuel	24	625
Seward, Clarence Armstrong	24	625

Biographies — cont'd	Vol.	Page
Seward, Frederick William	24	625
Seward, William Henry	24	625
Sharswood, George	24	663
Shaw, Lemuel	24	665
Shearman, Thomas Gaskell	24	670
Shellabarger, Samuel	24	687
Shepard, Edward Morse	24	697
Shephard, Elliet Fitch	24	697
Shepley, George Foster	24	700
Sherman, John	27	113
Sherman, Lawrence Yates	24	704
Sherman, Roger	24	704
Shields, John Knight	24	709
Shiras, George, Jr.	24	736
Shively, Benjamin Franklin	24	738
Shuster, William Morgan	24	761
Simmons, Furnifold McLendel	25	23
Simon, Joseph	25	24
Sloan, Charles H.	25	98
Sloan, Rush Richard	25	98
Smalls, Robert	25	108
Smith, Alfred E.	20	211
	25	112
Smith, James Francis	25	121
Smith, Munroe	25	125
Speed, James	25	384
Speer, Emory	25	385
Spencer, Ambrose	25	389
Spencer, John Canfield	25	393
Spooner, John Coit	25	432
Sprague, William	25	449
Springer, William McKendree	25	454
Stallo, John Bernard	25	473
Stetson, Francis Lynde	25	633
Stimson, Frederic Jesup	25	651
Stiness, John Henry	25	652
Stockbridge, Henry	25	659
Stockton, Charles Herbert	25	662
Stone, Harlan Fiske	25	678
Storey, Moorfield	25	697
Storrs, William Lucius	25	699
Story, Joseph	25	699
Story, William Wetmore	25	700
Stowell, Ellery Cory	25	706
Strange, Robert	25	709
Strong, William	25	740
Sulzer, William	20	210
Sulzberger, Mayer	26	9
Summers, George William	26	14
Sutherland, George	26	103
Sutherland, Howard	26	103
Swan, Joseph Rockwell	26	109
Swayne, Noah Haynes	26	111
Taft, Charles Phelps	26	212
Taft, Alphonso	26	212
Taft, Henry Walters	26	212
Taft, William Howard	26	212
Tallmadge, Nathaniel Pitcher	26	229
Taney, Roger Brooke	8	122
	26	240
Tanner, James	26	245
Taylor, Hannis	26	298
Taylor, John Louis	26	301
Temple, Oliver Perry	26	407
Terry, David S.	26	449
Terry, Henry Taylor	26	450
Thayer, Eli	26	490
Thayer, Ezra Ripley	26	490
Thayer, James Bradley	26	490
Thompson, Daniel Pierce	26	576
Thompson, Richard Wigginton	26	579
Thompson, Smith	26	579
Thompson, Waddy	26	580
Thompson, William Howard	26	580
Thorpe, Francis Newton	26	589
Throop, Montgomery Hunt	26	597
Thurman, Allen Granbery	26	602
Tiedemann, Christopher Gustavus	26	618
Tome, Jacob	26	682
Tompkins, Daniel D.	26	683
Toombs, Robert	26	697
Toucey, Isaac	26	717
Toulmin, Henry	26	718
Tourgee, Albion Winegar	26	719
Townsend, Charles Elroy	26	727
Tracy, Benjamin Franklin	26	747
Trimble, Robert	27	65
Trowbridge, Edmund	27	97
Trumbull, John	27	105
Tucker, Henry Saint George	27	128
Tucker, Henry Saint George	27	128
Tucker, John	8	122
Tucker, Nathaniel Beverley	27	129
Tucker, St. George	27	129
Turney, Peter	27	205
Tyler, Royall	27	233
Untermeyer, Samuel	27	582
Upton, William W.	27	586
Vance, Zebulon Baird	27	677
Van Devanter, Willis	27	669
Vann, Irving Goodwin	27	685
Van Santvoord, George	27	674
Van Wyck, Charles Henry	27	675
Vardaman, James Kimble	27	687
Vaux, Richard	27	706
Verplanck, Gulian Crommelin	28	35
Vest, George Graham	28	44
Voorhees, Daniel Wolsey	28	185
Wade, Benjamin Franklin	28	205
Wadsworth, James Wolcott, Jr.	28	207
Wainewright, Thomas Griffiths	28	214
Wait, John Cassan	28	214
Waite, Morrison Remick	8	122
	28	215
Walbridge, Hiram	28	218
Walker, Robert J.	28	229
Walker, Timothy	28	230
Wallis, Severn Teackle	28	242
Walsh, Francis Patrick	28	247
Walsh, Thomas James	28	248
Walworth, Reuben Hyde	28	252
Wambaugh, Eugene	28	252
Warren, Francis Emory	28	707
Washburn, Emory	28	771
Washburn, Israel J.	28	771
Washington, Bushrod	28	773
Watson, Clarence Wayland	29	108
Watson, David T.	29	108
Wayland, Francis	29	121
Wayne, James Moore	29	122
Webster, Daniel	29	146
Weeks, John Wingate	29	158
Wetmore, Edmund	29	229
Wharton, Francis	29	236
Wheaton, Henry	29	246
Wheeler, Wayne Bidwell	29	252
Whitaker, Edward Gascoigne	29	263
White, Edward Douglass	8	122
	29	265
White, Hugh Lawson	29	266
Whitman, Charles Seymour	20	210
	29	280
Whitridge, Frederick Wallingford	29	285
Wickersham, George Woodward	29	283
Wigmore, John Henry	29	299
Wilcox, Robert William	29	302
Wilde, Richard Henry	29	311
Willcox, William Russell	29	327
Williamson, Hugh	29	347
Willing, Thomas	29	348
Williston, Samuel	29	349
Wilmot, David	29	355
Wilson, Floyd Baker	29	357
Wilson, George Grafton	29	357
Wilson, James	8	122
	29	359
Wilson, Jeremiah Morrow	29	360
Wilson, William Lyne	29	363
Wingate, George Wood	29	396
Winthrop, James	29	405
Wirt, William	29	417
Wise, Henry Alexander	29	426
Wise, John Sergeant	29	427
Wistar, Isaac Jones	29	429
Wolcott, Edward Oliver	29	436
Wolcott, Roger	29	437
Wolf, Simon	29	438
Wood, John Seymour	29	473
Woodbury, Levi	29	492
Woodruff, Clinton Rogers	29	497
Woods, William Burnham	29	499
Woolsey, Theodore Salisbury	29	508
Works, John Downey	29	523
Wurts, John	29	577

GREAT BRITAIN

Alverstone, Sir Richard Everard Webster	1	459
Anson, William Reynell	2	7
Archambeault, Sir Horace	2	165
Armour, John Douglas	2	278
Austin, John	2	561
Barclay, Sir Thomas	3	243
Bell, George Joseph	3	474
Bentham, Jeremy	3	525
Bernard, Montague	3	569
Bethell, Sir Richard	3	590
Birdwood, Herbert Mills	4	3
Blackburne, Francis	4	41
Blackstone, Sir William	4	46
Blake, William Hume	4	57
Boyd, Sir John Alexander	4	372
Bracton, Henri de	4	383
Bratton, Henri de	4	383
Camden, Charles Pratt	5	255
Cameron, Sir Matthew Crooks	5	264
Campbell, John (Baron)	5	279
Caron, Réné Edouard	5	649
Carter, Sir Frederic Bowker Terrington	5	678
Casgrain, Philippe Baby	5	701
Casgrain, Thomas Chase	5	701

Biographies — cont'd	Vol.	Page
Cassels, Sir Walter	5	710
Chipman, Ward	6	562
Chitty, Joseph	6	571
Christian, Edward	6	600
Clark, Edwin Charles	7	41
Clark, Michael	7	43
Clarke, Sir Edward George	7	46
Cockburn, Sir Alexander James Edmund	7	185
Cockburn, Henry Thomas	7	186
Coke, Sir Edward	7	227
Coleridge, John Duke Coleridge	7	245
Coleridge, Sir John Taylor	7	245
Crabb, George	8	144
Curran, John Philpot	8	309
Davidson, Sir Charles Peers	8	504
Davies, Sir John	8	506
Davies, Sir Louis Henry	8	506
Despenser, Hugh le	9	14
Dicey, Albert Venn	9	78
Doherty, Charles Joseph	9	233
Dorion, Sir Antoine Aimé	9	266
Dundas, Robert	9	403
Eldon, John Scott	10	57
Ellenborough, Edward Law	10	252
Elliot, Arthur Ralph Douglas	10	253
Elton, Charles Isaac	10	267
Emmerson, Henry Robert	10	297
Erskine, Henry	10	485
Erskine, John	10	485
Erskine, Thomas	10	486
Esher, William Baliol Brett	10	498
Ewart, John Skirving	10	615
Eyre, Sir James	10	685
Falconbridge, Sir Glenholme	10	726
Fearne, Charles	11	74
Finch, Heneage	11	216
Fitzherbert, Sir Anthony	11	302
Fitzpatrick, Charles	11	302
Fry, Sir Edward	12	139
Girouard, Désiré	12	667
Glanvill, Ranulf de	12	681
Goldsmid, Sir Francis H.	13	32
Hale, Sir Matthew	13	634
Holland, Thomas Erskine	14	317
Innes, Alexander Taylor	15	142
Isaacs, Rufus Daniel	23	248
Jeffreys, George	16	7
Jenks, Edward	16	14
Jessel, Sir George	16	35
Jetté, Sir Louis Amable	16	46
Lacoste, Sir Alexander	16	635
Laflamme, Toussaint Antoine Rodolphe	16	650
Langelier, Sir François Charles Stanislas	16	718
Lemieux, Rodolphe	17	279
Lewis, Sir George Henry	17	334
Littleton, Thomas	17	524
Lyndhurst, John S. C., Baron	17	778
Lyttleton, Thomas	17	524
McCarthy, D'Alton	18	21
Macaulay, Sir James Buchanan	18	10
McDonald, James	18	36
McDonald, James Alexander	18	37
MacLean, William Findlay	18	77
McLeod, Malcolm	18	80
Maine, Sir Henry James Sumner	18	142
Mansfield, William Murray	18	234
Marchand, Félix Gabriel	18	272
Martin, Sir Theodore	18	338
Mercier, Honoré	18	667
Meredith, Sir Wm. Ralph	18	672
Mills, David	19	128
Morgan, John Hartman	19	452
Morris, William O'Connor	19	478
Newcastle, Thomas Pelham Holles, 1st Duke of	20	262
Nicolls, Richard	20	329
Norris, William Edward	20	408
O'Connor, John	20	572
Odgers, William Blake	20	584
Osgoode, William	21	19
Osler, Britton Bath	21	21
Osler, Sir Edmund Boyd	21	21
Oxley, James Macdonald	21	78
Penn, William	21	512
Phillimore, John George	21	761
Phillimore, Sir Robert Joseph	21	761
Phillimore, Sir Walter George Frank	21	761
Plowden, Edmund	22	252
Pollock, Sir Charles Edward	22	323
Pollock, Sir Frederick	22	323
Popham, John	22	361
Rattigan, Sir William Henry	23	228
Reading of Earley	23	248
Richards, Sir William Buell	23	492
Ritchie, Sir William Johnstone	23	538
Robidoux, Joseph Emory	23	576
Robinson, Christopher	23	579
Robinson, Henry Crabb	23	581
Robinson, Sir John Beverley	23	582
Romilly, Sir Samuel	23	674
Routhier, Adolphe Basile	23	727
Rowell, Newton Wesley	23	729
Russell, Charles Arthur	23	784
Scroggs, Sir William	24	456
Sewell, Jonathan	24	626
Sharp, Granville	24	661
Sifton, Arthur Lewis	24	797
Smith, William	25	128
Sproule, Thomas Simpson	25	460
Stokes, Whitely	25	670
Strong, Sir Samuel Henry	25	740
Tait, Sir Melbourne McTaggart	26	219
Talfourd, Sir Thomas Noon	26	224
Taschereau, Sir Henri Elzear	26	278
Taylor, Sir Thomas Wardlaw	26	302
Thompson, Sir John David Sparrow	26	578
Thomson, Thomas	26	584
Townshend, Sir Charles James	26	728
Twiss, Sir Travers	27	228
Villiers, John Henry de	28	93
Walton, Frederick Parker	28	251
Wark, David	28	704
Webster, Sir Richard Everard	29	152
Weldon, Richard Chapman	29	178
Wensleydale, James Parke	29	192
Wood, Edmund Burke	29	471
Zouche, Richard	29	735

OTHER COUNTRIES

Aagesen, Andrew	1	2
Aguesseau, Henri François d'	1	268
Akiba Ben Judah	1	295
Antonius, Marcus	2	46
Arndts Von Arnesberg, Ludwig	2	310
Asser, Tobias Michael Carel	2	421
Aubry, Charles Marie Barbe Antoine	2	531
Ave-Lallement, Friederich C. B.	2	672
Azo, Porzio	2	689
Azzolinus, Portius	2	689
Azuni, Domenico Alberto	2	692
Bang, Peder Georg	3	141
Bar, Karl Ludwig von	3	226
Barreiro, Juan Baptista Hernandez	3	276
Bartolus De Saxoferrato	3	296
Bartolus, Osso	3	296
Bickell, Johann Wilhelm	3	680
Biener, Christian Gottlob	3	691
Binding, Karl	3	714
Bluntschli, Johann Kaspar	4	133
Bœhmer, Just Henning	4	148
Bornemann, Ferdinand Wilhelm Ludwig	4	276
Briegleb, Hans Karl	4	534
Brisson, Barnabé	4	546
Bunge, Friedrich Georg von	5	24
Burckhard, Max Eugen	5	33
Bynkershoek, Cornelius van	5	97
Carpzov	5	660
Chauveau-Lagarde, Claude François	6	368
Cocceius, Heinrich von	7	181
Colebrook, Henry Thomas	7	242
Conring, Hermann	7	536
Daumat, Jean	9	240
Domat, Jean	9	240
Draco	9	291
Dufaure, Jules Armand Stanislas	9	386
Dumont, Pierre Etienne Louis	9	399
Dupaty, Charles Marguerite Jean Baptiste Mercier	9	409
Durandus, Gulielmus	9	418
Eck, Ernst Wilhelm Eberhard	9	544
Eichhorn, Karl Friedrich	14	233
Eitzbacher, Paul	10	267
Endeman, Wilhelm	10	318
Engelmann, Johannes	10	337
Esperson, Pietro	10	503
Falck, Niels Nikolaus	10	725
Féraud-Giraud, Louis Joseph Delphin	11	119
Feuerbach, Paul Johann Anselm von	11	161
Filangieri, Gaetano	11	205
Fiore, Pasquale	11	229
Fitting, Heinrich Hermann	11	299

Biographies — cont'd	Vol.	Page
Garofalo, Raffaele	12	296
Gengler, Heinrich Gottfried	12	396
Gentili, Alberico	12	402
Gerando, Joseph Marie	12	493
Girard, Paul Frédéric	12	663
Godefroi, Michael M.	12	745
Gratian, Franciscus	13	161
Gratianus, Franciscus	13	161
Gregorianus	13	447
Hortalus	14	417
Hortensius, Quintus	14	417
Hotman, François	14	440
Huber, Eugen	14	464
Hufeland, Gottlieb	14	475
Hugo, Gustav von	14	480
Juliannus Salvius	16	242
Kavelin, Konstantin Dmitrievitch	16	323
Keller, Friedrich Ludwig von	16	337
Koch, Christian Friedrich	16	504
Kohler, Josef	16	508
Körner, Christian Gottfried	16	528
Köstlin, Christian Reinhold	16	533
Laband, Paul	16	589
Labeo, Marcus Antistius	16	589
Labori, Fernand Gustave Gaston	16	621
Laboulaye, Edouard René Lefebvre de	16	621
Lafontaine, Henri	16	650
Lammasch, Heinrich	16	677
Lapradelle, Geouffre de	16	745
Lardy, Charles	16	748
Legrand, Louis Désiré	17	256
Lehr, Paul Ernest	17	260
Leist, Burkhard Wilhelm	17	272
Leonhardt, Gerard Adolf Wilhelm	17	302
Lycurgus	13	400
	17	771
Michael, Attaliates	19	11
Michaelis, George	19	13
Millerand, Alexander	19	123
Mittermaier, Karl Joseph Anton	19	273
Moser, Johann Jakob	19	499
Neuville, Jean Guillaume	20	105
Nys, Ernest	20	526
Oppenheim, Lassa Francis Lawrence	20	716
Paulus, Julius	21	422
Peixoto, Ignacio José de Alvarenga	21	475
Picot, Georges	22	69
Porras, Belisario	22	376
Prudhommes, Conseils de	22	712
Quesnay De Beaurepaire, Jules	23	84
Rabasa, Emilio	23	103
Redlich, Joseph	23	289
Rodriguez, José Ignacio	23	623
Romagnosi, Giovanni Demenico	23	639
Savigny, Friedrich Karl von	14	233
	24	328
Thomasius, Christian	26	575
Thou, Jacques Auguste de	26	590
Uribe, Antonio José	27	592
Vico, Giambattista	28	65
Weiss, Charles Andre	29	175
Zacharia Von Lingenthal, Karl Eduard	29	680
Zacharia, Von Lingenthal, Karl Salomo	29	680
Zamora y Coronado, José Mariá	29	685
Zopfl, Heinrich Matthias	29	731
Zorn, Philipp	29	731
Zuazo, Alonso	29	735

See also **Government and Political Science.**

MATHEMATICS

Pure	Vol.	Page
Absolute	1	53
Aclinic line	1	94
Addition	1	382
of order-types	2	419
A fortiori	1	211
Algebra	1	381
definitions and fundamental concepts	1	381
elementary	1	385
history of	1	388
	1	393
of operations	13	494
Algebraic, addition	1	382
arithmetical progression	1	389
assemblages	1	382
simple properties of	1	382
binomial expansion	1	390
theorem	1	390
biquadratic	1	387
cardinals, finite	1	382
infinite	1	382
coefficients, undetermined	1	392
combinations	1	389
critical note	1	388
expression	1	385
equation, cubic	1	387
higher	1	388
quadratic	1	387
simultaneous	1	388
factors	1	385
	1	387
forms	15	276
indeterminate	1	392
fractions	1	384
function, notation of	1	386
integers	1	383
involution	1	383
logarithms	1	390
calculation of	1	391
multiplication	1	383
notation	1	386
numbers, cardinal	1	382
complex	1	384
concept, extension of	1	383
natural	1	383
rational	1	384
real	1	384
permutations	1	389
postulates, method of	1	385
progression, arithmetical	1	389
geometric	1	389
harmonical	1	389
proportion	1	386
quadratic	1	387
ratio	1	386
series, logarithmic	1	391
signs	1	383
similarity	1	382
terms	1	385
theorems, remainder	1	387
unity, cube roots of	1	387
variation	1	386
Algebras, artificial	17	605
Analemnia	1	606
Analysis	1	607
diophantine	9	137
situs	1	607
Angle	1	683
between lines	12	444
Anharmonic ratio as coordinate	12	461
Apparent	2	74
Application quaternions	23	68
Applications	5	169
Apex	10	349
Approximation	2	101
general methods of	18	640
Arc	2	147
Argument	5	164

Pure — cont'd	Vol.	Page
Arithmetic	2	245
history of	2	248
methods of	2	248
nature of problems in	2	247
Arithmetical checks	2	246
compound numbers	1	246
decimal	8	559
fundamental operations	2	245
history of	2	248
mean	25	532
methods	2	248
nature of problems in	2	247
notation	2	245
numeration	2	245
progression	1	389
scales	2	245
series	24	592
topics, sequence of	2	247
Aronhold process	15	278
Assemblages	1	382
	5	166
dense	2	416
derived	2	416
finite	2	416
general theory of	2	415
infinite	2	416
measure and measurable	2	417
perfect	2	417
simple properties of	1	382
Asymptote	2	485
Asymptotic lines	26	69
Attraction	22	446
Aune	18	730
Axiom	2	682
Axioms of Euclid	22	437
Barrel	18	642
Base	3	302
Billion	3	707
Binomial	3	717
expansion	1	390
theorem	1	390
Biquadratic	1	387
Calculus, differential	5	167
infinitestimal	5	163
	17	261
application	5	169
differentials	5	171
geometric interpretation	5	166
integration	5	173
kinematic illustration	5	166
integral	15	202
of variations	5	179
Cancellation	5	490
Capacity	18	734
Cardinal number	1	382
Cardinals, finite	1	382
infinite	1	382
Cardioid	5	603
Cassian oval	5	711
Casus irreducibilis	10	454
Caustic	6	133
Chance, law of	25	531
Characteristic	6	301
Chord	6	592
Ciphers	6	690
Circle	6	691
	18	638
	18	640
and its equation	12	444
Circular cylinder	8	363
Circulation in electromagnetic circuit	27	711
Circumference, or Periphery	6	695
Cissoid	6	698

Pure — cont'd	Vol.	Page
of Diocles	23	53
Closed M-surface S	1	613
Coefficients, undetermined	1	392
Cofactor	9	19
Combination	1	389
	7	350
Combinations and permutations	7	351
Commensurable	7	365
Common divisor, or common measure	7	409
Complanation	5	177
Complement	7	431
Complexes, hyperpencil of	12	457
Complex variable, theory of	7	431
Compound numbers	2	246
Compound probability	22	620
Concepts, logic of	17	606
Conchoid	7	461
of Nicomedes	23	53
Cone	7	485
Conics	12	462
Conic sections	7	520
Conjugate directions	26	69
Connectivity	1	607
Conoid	7	534
Continuity	5	165
Contragredient	15	279
Contravariant	15	279
Co-ordinates	14	603
	26	69
Cartesian	12	442
curvilinear	13	716
	26	67
homogeneous point and line	12	462
pentaspherical	12	457
Coplanar forces in general	13	146
Covariants	15	275
Cremona transformation	8	322
Critical note	1	388
Cube	8	288
duplication of	23	52
roots of unity	1	387
Cubic equation	1	387
Cubic form	15	279
Cubic number	8	288
Curl of a vector	27	710
Curl of Q	14	567
Curvature	26	69
circle of	6	692
Curve at a point, elements of	8	326
Curves, analytic	7	437
curvature of	26	68
dual closed	1	612
higher plane	8	319
of double curvature	8	325
Cycloid	8	361
	27	81
Cylinder	8	363
	18	641
Deduction	8	574
Degrees, measurement of	8	599
of latitude and longitude	8	600
Delian problem	10	454
	21	271
Demonstration	8	672
Denumerability	2	416
Derivatives	5	166
Determinants	9	17
application of	9	21
Determinate problem	9	23
Diagonal	9	56
Diagram	9	56
Diameter	9	61

Pure — cont'd	Vol.	Page
Differences	11	406
Difference-quotient	5	166
Differentials, partial and total	5	171
Differentiatio de curva in curvam	5	177
Digit	9	117
Dimensionality	14	602
Directrix	9	144
	12	456
Distributive law	27	708
Divergence	27	709
Dividend	9	198
Division	9	204
Dodecahedron	9	219
Duality	12	469
Elimination	10	240
Ellipse	10	255
	12	445
	18	639
	18	640
Ellipsoid	26	65
Elliptic	5	175
paraboloid	26	66
Envelopes	5	169
Epicycloid	10	419
Epitrochoid	14	607
Equally probable events	22	619
Equation	10	440
differential	10	441
Laplace's	14	568
locus of	12	443
Pell's	21	485
Equation of continuity	14	566
Equation of parabola in Cartesian co-ordinates	21	272
Equations, biquadratic	3	723
cubic	1	387
	8	288
dimensional	27	568
Frenet	8	328
fundamental	4	236
	26	67
Galois' theory of	10	448
general theory of	10	435
higher	1	388
integral	15	208
intrinsic	8	329
Maxwell's	27	711
normal	17	182
Plücker's	8	321
quadratic	1	387
simultaneous	1	388
Equation of parabola in polar co-ordinates	21	272
Equation of the tangent	21	272
Equivalence, concept of	2	415
Errors	17	183
law of	25	531
Euclid, axioms of	22	437
Eulerians	5	177
Euler's condition	5	182
Euler's discovery	5	178
Euler's polyhedron formula	1	613
Evolute	10	605
Excess	10	618
Exhaustions, method of	10	638
Existence-theorems	5	172
Expansion theorem	1	390
Exponentials	10	659
Exponents	1	385
	10	659
Expression	1	385
Factor	10	698
and remainder theorems	1	387
Factors	1	385
	1	387
False position, rule of	10	736
Fermat's last theorem	11	125
Figure	11	204

Pure — cont'd	Vol.	Page
Finite and infinite cardinals	1	382
Flux-function	14	570
Fluxion	11	405
Fluxions	15	202
Flux of a vector through an area	27	709
Folium of Descartes	11	416
Form, linear	15	279
Forms	11	492
	15	276
arithmetical theory of	15	280
differential	15	280
fundamental quadratic	26	67
indeterminate (undeterminate, evanescent, illusory)	1	392
Four forces	13	146
Four-space	14	604
Fourier series	11	549
	13	712
Fraction	11	569
Fractions, decimal	8	559
or rational numbers	1	384
Function	12	160
derived	5	167
directional derivative of a scalar	27	709
doubly periodic	5	175
gradient of the	14	568
notion and notation of	1	386
	5	165
Functional determinate	5	176
Functions, Abelian	7	438
automorphic	15	280
Bessel's	13	715
conjugate	14	570
defined on an interval of a real variable	23	251
definitions of the trigonometric	27	56
implicit	5	172
Lamé's	13	716
of more than one variable	23	254
Fundamental magnitudes of the first and second order	26	67
Fundamental operations	2	245
Gauss' flux integral	27	710
Gauss' spherical representation	26	68
Gaussian elimination	17	185
Geodesic lines	26	69
Geodesic parallel system	26	70
Geodesic polar system	26	70
Geometric interpretation	5	166
	15	278
Geometrical circle and its equation	12	444
of space	12	458
quadranture of	12	450
circles, orthogonal theory of to sphere	12	458
complex, higher degree	12	457
invariant of	12	456
linear	12	455
special	12	456
complexes, angle of	12	456
hyperpencil of	12	457
pencils of	12	456
congruences, line	12	456
conics	12	462
conic sections, Cartesian	12	444
constructions	12	449
approximate	12	450
Hilbert	12	451
Mascheroni	12	451
Poncelet	12	451
ruler	12	450
Steiner	12	451
continuity	12	469
co-ordinates, Cartesian	12	442
transformation of	12	442
configuration, Cartesian	12	445
homogeneous, point and line	12	462
interpretation of homogeneous	12	459
line	12	454
of points and line of range and pencil, homogeneous	12	459
of points and line of range and pencil, non-homogeneous	12	459
polar, Cartesian	12	442
transformation from Cartesian to polar	12	443
correlation	12	469
directrix	12	456
duality	12	469
elements at infinity	12	458
elements, harmonic	12	469
ellipse, Cartesian	12	444
equation, locus of, Cartesian	12	443
foundations, logical	12	446
hyperbola, Cartesian	12	444
hyperpencils	12	455
involution	12	456
line, distance from point to point	12	444
line-segment, division of in given ratio	12	443
line, straight, and the linear equation	12	443
line-systems, general	12	455
lines, angle between, Cartesian	12	444
condition of intersection	12	455
notation, method of abridged	12	462
notions, fundamental	12	467
order	12	469
parabola, Cartesian	12	444
parallelism	12	468
pencils	12	455
plane, Cartesian	12	442
Geometrical plane, dual elements of	12	461
points, distance between, Cartesian	12	443
polygons, regular	12	450
problems	12	449
progression	1	389
	12	441
projectivity	12	469
propositions, fundamental	12	468
range and pencil	12	458
	12	461
range and pencil, conjoined	12	460
range and pencil, interpretation of anharmonic ratio in	12	460
ratio, anharmonic	12	460
as co-ordinate	12	461
relations of four elements, special	12	460
space, Cartesian	12	445
circle of	12	458
in pentaspherical co-ordinates	12	457
sphere of	12	457
theorem, fundamental	12	470
theories, allied	12	453
transformation, linear	12	461
Geometry	12	441
analytical, modern	12	458
Cartesian	12	441
elementary	12	446
history of	12	451
line	12	453
non-Euclidean	12	463
of Minkowski	23	340
plane, of the point in four space	12	457
pure projective	12	467
new problems	12	471
relations to analytic	12	471
relation to metrical	12	470
relations to non-Euclidean	12	471
Pythagorean	23	48
Geometrography	12	451
Gnomon	12	737
Gordon's method	15	279
Graphic method	13	146
Graphical statics	13	146
Greatest common divisor	2	411
Green's theorem	14	569
	27	710
Group analysis	13	495
Group construction	13	495
Groups, continuous	13	496
theory of	13	493
Hamilton's principle	5	183
	5	184
Harmonical progression	1	389
Harmonic analysis	13	712
Harmonics, conal	13	716
ellipsoidal	13	716
Henneberg's method	13	150
Hilbert construction	12	451
Hölder's theorem	10	454
Hydrodynamics	14	562
	14	571
fundamental theorem of	14	562
Hydrokinematics	14	564
Hydromechanics	14	562
Hydrostatics	14	562
Hyperbola	12	445
	14	601
Hyperbolic theory	1	617
Hyperboloid	26	66
Hyperspaces	14	602
Hypocycloid	14	607
Hypotenuse	14	608
Hypothesis	14	608
Hypotrochoid	14	607
Imaginary absolute elements	1	617
Improper infinite	2	418
Independence of the postulates	22	488
Indeterminates	5	170
Indicatrix	1	610
Dupin's	26	69
Induction, mathematical	15	75
Infinite distances and angles	1	616
Infinitesimal analysis	5	178
Infinity	15	120

Pure — cont'd	Vol.	Page
Instantaneous pivot	5	169
Instantaneous speed	5	167
Integers with sign	1	383
Integral of the proposed differential	15	202
Integrals, Abelian	7	438
Integration	5	173
by parts	5	174
Interpolation	15	267
Invariant, differential	15	280
Invariants	15	275
absolute	15	278
Inverse operations	5	174
Inverse problems	5	183
Inversion	15	286
Involution	1	383
	2	418
	12	456
	15	288
Irrational operations	23	52
Irrationals	5	164
Isometric perspective	15	420
Isomorphism	13	494
	15	421
Isothermal lines	26	69
Jacobi's condition	5	182
	5	183
Kilogramme des Archives	18	730
Kinematic illustration	5	167
La Laubère method	18	118
Lamellar vector	14	568
Laplacian of Q	14	568
Laplace's coefficients	13	714
Laterality	1	609
Latus rectum	21	273
Laws of combination by multiplication	23	66
Least action, principles of	17	180
Least common multiple	2	417
Least squares, method of	17	181
Lemniscate	17	280
Length	18	734
Liber Abaci	22	117
Limited weak minimum	5	181
Limit-points, assemblage of	2	416
Limits, method of	5	178
Limits of a sum	5	178
Limits of the sums of infinitesimal differences	5	173
Linear congruences	20	489
Line congruences	12	456
Line co-ordinates	12	454
Line, diagonal	9	56
mathematical	17	458
segment	12	443
Lines, minimal	26	69
of curvature	26	69
of flow	14	565
of the gradient vector	27	709
of the vector	14	565
Lissajous figures	17	503
Lituus	17	526
Locus	17	588
Logarithmic series	1	391
Logarithmic spiral	17	598
Logarithms	1	390
	17	99
binary	3	713
calculation of	1	391
Logic, algebra of	17	608
of classes	17	606
symbolic	17	604
Machinery, kinematics of	16	421
Mathematical induction	15	75
Mathematical signs and symbols	18	426

Pure — cont'd	Vol.	Page
societies and journals	18	428
society American	1	541
society (London)	18	431
Magic circle of circles	18	120
Magic squares	18	117
of an even order	18	118
of an odd order	18	118
Mapping, conformal	7	432
Mascheroni constructions	12	451
Mass or weight	18	734
Mathematical expectation	22	622
Mathematics	18	431
arithmetisation of	22	438
Mathematische annalen	20	99
Maxima and minima	5	170
	5	172
	5	173
	18	455
Mean, geometrical	12	435
law of	5	171
value	18	477
Measurement of a degree of longitude	8	599
Median	25	532
Mediate derivation	5	167
Mensuration	18	637
Meridian circle	6	692
Methods of solving problems	2	247
Metre	18	729
Metric system	18	734
	18	729
Metric system, advantages of	18	732
Metrics, analytical	1	614
Minimum, absolute	5	181
Minute	19	215
Mode	25	531
Moderately asymmetrical skew curve	25	532
Modulus	19	289
Moebius' sheet	1	609
Multiplication	1	383
non-commutative character of	23	68
of order-types	2	419
of powers	2	418
Napier's rods	19	694
Nasick squares	18	121
N dimensions	1	611
Newton's astronomical mathematics	24	615
Non-homogeneous and homogeneous co-ordinates	12	459
Non-vortical motion	14	568
Notation	1	386
	2	245
	15	202
abridged, method of	12	462
and numeration	2	245
arithmetical	20	458
binary	3	713
finger	11	221
Number, Argand representation of the complex	14	706
Number-concept, extension of	1	383
Numbers, Betti's	1	613
cardinal	1	382
circular	6	693
complex	1	384
compound	2	246
concept, extension of	1	383
figurate	21	363
irrational	15	392
natural	1	383
rational	1	384

Pure — cont'd	Vol.	Page
real	1	384
theory of	20	488
Numbers	20	491
Numeration	2	245
	20	493
Octagon	20	574
Octahedron	20	574
Octant	13	610
Order-type of linear continuum	2	419
Order-types	2	418
Parabola	18	639
	18	640
	21	271
diameter of	21	272
Paraboloid	18	642
	21	274
hyperbolic	26	66
Parallelism	12	468
Parallelogram	18	639
	21	283
of forces	13	146
Parameter	21	285
Part-fractions	1	392
Parts, circular, Napier's rules for	6	693
Pascal's triangle	21	363
Path	5	170
Pencils of complexes	12	456
Pendulum	21	503
Permutations	7	351
	9	17
Permutations and combinations	1	389
	7	351
Perpendicular	21	603
Plane	12	442
	22	151
	26	65
displacements of	1	619
elliptic theories of	1	620
hyperbolic theories of	1	620
Plane of projection	22	644
Probability, laws of	25	531
Plücker's double conception	5	170
Point	22	281
Points, hyperspace of	14	603
ordinary	26	66
Poisson's equation	14	568
Polar co-ordinates	12	442
Pole	22	300
Polygon	22	331
funicular	13	148
irregular	18	640
Polygons	12	450
Polyhedron	20	331
Poncelet construction	12	451
Pons asinorum	22	349
Porism	22	374
Postulates	22	437
inconsistent	22	438
method of	1	385
sets of, for symbolic logic	22	438
sets of formulated for systems	22	437
Potential of the forces	14	563
Power	22	477
of the continuum	2	416
Powers, addition of	2	418
Principle, Dirichlet's	7	437
Probabilities derived from experience	22	622
Probabilities, empirical	22	623
Probability, geometrical	22	624
Probabilities of causes	22	622
Probabilities of repeated events	22	621

Pure — cont'd	Vol.	Page
Probability, Bernoulli's theorem	22	621
curves	25	532
of an event	22	620
theory of	22	619
Problem, Dirichlet's	15	204
Process and result	5	178
Progression	22	635
arithmetical	1	389
geometric	1	389
harmonical	1	389
Projection	22	644
Proper infinite	2	418
Proportion	1	386
	22	666
Proposition	22	668
Propositions, logic of	17	607
Principal normal sections	26	67
Prime number	22	578
Principal radii of curvature	26	68
Principle of continuity	23	249
Prism	18	640
	22	602
Prismatoid	18	641
Pyramid	23	41
and cone	18	641
Quadrangle	23	52
Quadrantal versor	27	711
Quadratic equation	1	387
Quadratrix of Dinostratus	23	53
Quadrature	5	177
of the circle	12	450
	23	52
Quadric form	15	279
Quadric surfaces	26	65
classification of	26	65
Quadrivium	23	54
Quantics	11	492
Quantity, imaginary	14	706
Quartic	1	387
form	15	279
Quaternary forms	15	279
Quaternion algebra, laws of association	23	66
Quaternions, calculus of	13	660
fundamental principles	23	66
Hamilton's	17	605
Quaternion multiplication	23	68
Quantity	23	57
Quintic	10	449
Quotient, limit of a	5	178
Radius of curvature	21	273
Radius of the circle	23	58
Range	23	210
Ratio	1	386
	23	225
Rationals, order-type of	2	419
Rational functions	5	174
	5	175
Rational integral functions	5	175
Ray, conical refraction of	13	660
Reality	15	121
Real numbers	1	384
Real variable	23	249
theory of functions	23	249
Reciprocal determinants	9	21
Reciprocal diagrams	13	150
Rectangle	18	639
	23	275
Rectification	5	177
of parabola	21	273
Recurring series	24	593
Regular polygon	18	639
Regular solids	18	642

Pure — cont'd	Vol.	Page
Relation between curl and circulation	27	711
Relations, logic of	17	609
Relative maximum	5	173
Repeater	23	384
Representation, conformal	26	71
Resolution of vectors	27	707
Revolution	23	449
general solid of	18	642
Riemann surfaces	1	609
Riemann transformation	8	322
Roots and singular points	7	436
Rotation, in three dimensional space	23	68
Rotors	27	707
Ruled surfaces	26	71
Ruler constructions	12	450
Sameness of power	2	415
Scalar	23	67
product of two vectors	27	708
quantity	27	706
Scale, diagonal	9	56
Scales	2	245
Schoenflies	1	611
Second order surfaces	26	65
Section, golden	13	28
Sector	24	520
Sector, area of a circular	24	520
Segment of a real variable	23	250
Sequence of topics	2	247
Series	24	592
absolutely convergent	24	594
conditionally	24	594
convergent	24	593
development into a Taylor's	7	435
divergent	24	595
finite	24	592
generating function of	24	594
geometric	24	593
higher arithmetic	24	593
history	24	596
infinite	5	168
	24	593
law of	24	592
literature	24	596
logarithmic	1	391
	24	594
Maclaurin's	5	167
multiple	24	596
Series of functions	24	596
Significance of a power	22	477
Signs	1	383
Signs, Descartes' rule of	8	718
and symbols, mathematical	18	426
Similarity	1	382
	25	21
Similar polygons	22	331
Simply ordered assemblages	2	418
Simpson's rule	18	640
Simultaneous equations	1	388
	25	30
Sine	25	33
Singular points	26	66
Skew polygon	22	331
Skewness in statistics	25	535
Smallest transfinite cardinal	2	418
Solid	25	240
Solids of revolution	18	641
Solenoidal vector	14	570

Pure — cont'd	Vol.	Page
Solenoidal vector field	27	710
Solutions, graphical	13	149
Source-density	14	568
Space	12	445
	25	320
circle geometry of	12	458
Special linear transformations	15	279
Special surfaces	26	71
Sphere	18	641
	25	402
Sphere geometry of space	12	457
Spherical depiction	8	329
Spherical harmonics	13	714
Spherical sector	24	521
Spheroid	18	641
Spiral	25	418
Square	25	462
Square root, arithmetical	25	462
Squares, diabolic	18	121
Steiner construction	12	451
Steiner curve	8	325
Steiner's surface	1	611
Stereographic projection	25	627
Stirling's series	5	167
Stokes' theorem	14	567
	27	711
Strong minimum	5	181
Substitution groups	13	495
Sufficient condition for a strong minimum	5	183
Surface	26	62
curvature of	5	172
	26	681
cylindrical	8	363
Surfaces, algebraic	26	65
cubic	26	66
equipotential	14	568
fourth order	26	66
minimal	26	72
theory of	26	64
Surveying	26	91
Symbolic notation	15	278
Symbolic scalar product	27	709
Symbolic vector product	27	710
Symbols, mathematical	26	163
Symmetrical spherical triangles	26	166
Symmetry	26	165
Synthesis	26	176
Tangent	26	241
plane	26	67
Tangential and normal derivatives to a level surface	27	709
Taylorian series	5	167
	5	171
Taylor's theorem	14	574
Tensor factor	23	67
Ternary forms	15	279
Ternary quadric	15	279
Tetrahedral rotations	13	494
Theorem, Bernoulli's	14	572
binomial	1	390
Cauchy's	7	434
Cayley-Bacharach	8	320
divergence of	14	565
Fermat's	20	490
Jordan	1	611
Kronecker's	10	454
Lagrange	14	573
maximum-minimum	5	178
Mittag-Leffler's	7	438
Pythagorean	23	48
remainder	1	387
Theory of circles orthogonal to sphere	12	458

Pure — cont'd	Vol.	Page
Theory of definite integrals	5	177
Theory of determinants	9	22
Theory of divergent series	24	596
Theory of limits of a real variable	23	251
Thermodynamics principles of	14	563
Third order surfaces	26	66
Time derivatives of simple harmonics	27	711
Toroidal harmonics	13	716
Torricelli theorem	14	572
Total derivative	5	171
Total probability	22	620
Totality of real numbers	23	249
Trachoid	27	80
Transcendentals	5	174
Transfinite assemblage	2	416
Transfinite cardinal numbers	2	418
Transfinite derivatives	2	417
Transfinite numbers	5	537
Transformation	13	494
linear	1	615
	7	436
	12	461
	13	495
of variables	5	173
Transvectants	15	278
Trapezium	27	16
Trapezoid	18	639
	27	16
Trapezoidal methods, The	18	640
Triangle	18	639
	27	52
circular	27	52
equilateral	27	52
isosceles	27	52
oblique	27	52
Triangulation	14	578
Tri-dimensionality	14	603
Trigonometry	27	56
addition theorems	27	59
complements	27	57
conventions	27	56
curious relations	27	61
definitions	27	56
De Moivre's theorem	27	61
Euler's formulæ	27	61
equations	27	60
explements	27	57
functions, definitions of	27	56
functions of negative angles	27	57
geometric depiction	27	57
history of the elements of	27	63
hyperbolic functions	27	63
inverse trigonometric functions	27	60
interdependence of the functions	27	58
laws of cosine	27	59
laws of sine	27	59
laws of tangent	27	59
Napier's analogies	27	62
Napier's circular parts and rules	27	62
oblique spherical triangles	27	62
plane	27	56
a special case of spherical	27	62
prosthapheretic formulæ	27	59
pseudo-spherical	27	63
quadrantal triangles	27	62
range of periodicity	27	57
range of variation	27	57
right spherical triangle	27	61
series	27	60
spherical	27	61
solution of triangles	27	60
supplements	27	57
table of critical values	27	58
theory of the six trigonometric functions	27	58
triangle solution exemplified	27	60
trigonometric equations	27	60
trigonometric series	27	60
Triple scalar product	27	709
Triple vector product	27	709
Trisection of an angle	27	76
Trisection of an arbitrary angle	23	52
Tube of the vector	14	565
Tubular	27	710
Undetermined coefficients	1	391
Unilateral surfaces	1	610
Unlimited variations	5	183
Uses of series	24	594
Vanishing fraction	27	684
Vanishing point	27	684
Variable, change of	5	174
classifying discontinuous functions of a real	23	253
analytic functions of a complex	23	249
continuous functions of a real	23	252
differentiable functions of a real	23	252
discontinuous functions of a real	23	253
length of an interval of a real	23	250
limit point of a real	23	250
monotonic functions of a real	23	251
independent	5	164
interval of a real	23	250
oscillating functions of a real	23	251
quantities	27	687
Variables, independent	5	170
limits of	5	164
Variation, algebraic	1	386
Variations, calculus of	5	179
limited	5	183
Vector	27	706
analysis	27	706
divergence of the	14	565
magnitude of the	14	565
and scalar fields	27	709
equation of a line	27	707
flux of the	14	565
functions	27	709
of an area	27	707
of a point	27	707
of unit length	23	67
product	27	708
Vectors	23	66
addition of	27	707
equal	27	706
and versors for simple harmonics	27	71
in a plane	27	711
sum for faces of polyhedron	27	708
Velocity, potential	14	568
Volume	5	177
Vortex-filaments	14	570
Vortex-lines	14	570
Vortex-motion	14	573
Vortex-tubes	14	570
Vortical motion	14	570
Vorticity	14	567
Wave-motion	14	572
Weak minimum	5	181
	5	182
Weddle's rule	18	640
Weighted mean	25	532
Weights	17	185
Weirstrass's (fourth) necessary condition	5	183
Weierstrass's theorems	7	438
Wilson's theorem	20	490
Zermdo's axiom	15	120
Zermelo's axiom	2	419
Zero	29	704
Zonal harmonics	13	713

Applied Mathematics

	Vol.	Page
Abacus	1	5
Accelerographs	1	67
Accelerometer	1	68
Acoumeter	1	97
Actinograph	1	107
Actinometer	1	107
Actinophone	1	107
Affine transformation	1	206
Altimetry	1	451
Ballistics	3	101
Bolometer	4	195
Calculating machines	5	161
Calculating pennies	1	6
Calculi	1	6
Compasses	7	428
Geodesy	12	404
Gunter's line	13	573
Knots	1	613
Mechanics, applied	2	90
Micrometer	19	33
Peaucellier cell	21	460
Potential function as measure of work	22	447
Projection, Bonne's	22	649
conical	22	648
Mercator's	22	645
Mollweide	22	648
simple polyconic	22	649
Quadrant, The	12	745
Hadley's	13	610
Radio micrometer	4	195
Rechenpfennige	1	6
Saroban	1	5
Slide rule	25	97
Swanpan	1	5
Table, terrestrial spheroid	22	646
Triangle, adjustable	1	141
Vernier	28	33

Biographies

UNITED STATES

	Vol.	Page
Banneker, Benjamin	3	210
Béman, Wooster Woodruff	3	497
Bocher, Maxime	4	142
Bowser, Edward Albert	4	367
Brackett, Frank Parkhurst	4	382
Brown, Stimson Joseph	4	612
Burr, Enoch Fitch	5	64
Byerly, William Elwood	5	95
Cajori, Florian	5	152
Church, Albert E	6	652
Clark, John Emory	7	42
Colburn, Warren	7	234
Cole, Frank Nelson	7	241

Biographies — cont'd	Vol.	Page
Courtenay, Edward Henry	8	125
Davies, Charles	8	505
Eddy, Henry Turner	9	576
Edmondson, Thomas William	9	589
Ewing, John	10	616
Fiske, Thomas Scott	11	297
Franklin, Fabian	12	12
Gibbs, Josiah Willard	12	642
Godfrey, Thomas	12	745
Halsted, George Bruce	13	651
Hardy, Arthur Sherburne	13	705
Haynes, Arthur Edwin	14	21
Hill, Thomas	14	189
Johnson, William Woolsey	16	181
Keyser, Cassius Jackson	16	388
Lane, Jonathan Homer	16	714
Lanza, Gaetano	16	738
Lovett, Edgar Odell	17	696
Macfarlane, Alexander	18	46
Maclaurin, Richard Cockburn	18	75
McClintock, Emory	18	24
McMahon, James	18	81
Miller, George Abram	19	119
Moore, Eleakim Hastings	19	429
Morley, Frank	19	461
Oliver, James Edward	20	666
Osgood, William Fogg	21	19
Paterson, John	21	390
Patterson, Robert	21	408
Peirce, Benjamin Osgood	17	605
	21	474
Peirce, James Mills	21	475
Pierpont, James	22	76
Rittenhouse, David	23	543
Runkle, John Daniel	23	775
Safford, Truman Henry	24	104
Smith, David Eugene	25	114
Smith, Percey Franklyn	25	126
Smith, William Benjamin	25	129
Story, William Edward	25	700
Strong, Theodore	25	740
Van Vleck, Edward Burr	27	675
Wells, Webster	29	187
Wentworth, George	29	192
Wentworth, George Albert	29	192
White, Henry Seely	29	266
Woodward, Robert Simpson	29	500
Ziwet, Alexander	29	716

OTHER COUNTRIES

Biographies — cont'd	Vol.	Page
Aahmes	1	2
Abel, Niels Henrik	1	35
Al-Battani	1	330
	27	63
Al-Khowarazmi	1	406
Auzout, Adrian	2	670
Apollonius, Pergæus	2	65
Archimedes	2	168
Aristotle	12	452
Archytas	2	187
Aronhold, Siegfried Heinrich	2	324
Aryabhatta	2	372
Atwood, George	2	528
Babbage, Charles	3	3
Baeyer, Johann Jakob	3	37
Baker, Alfred	3	58
Ball, Walter William Rouse	3	93
Barrow, Isaac	3	282
Bellavitis, Giusto	3	480
Beltrami, Eugenio	3	495
Bernoulli, Daniel	3	575
	19	312
Bernoulli, Jakob Jacques or James	3	575
	24	615
Bernoulli, Jakob	3	575
Bernoulli, Johann	3	575
Bernoulli, Nicolas	3	576
Bernouville, Jacques	3	575
Bernouville, James	3	575
Bertrand, Joseph Louis François	3	582
Bezout, Etienne	3	607
Biot, Jean Baptiste	3	722
Biton	4	24
Bolyai, Farkas	4	197
Bolyai, Jänos	4	197
Bolyai, Johann	4	197
Bolyai, Wolfgang	4	197
Boole, George	4	246
	15	276
	17	605
Bossut, Charles	4	292
Bowditch, Nathaniel	4	360
Brianchon, Charles Julien	4	488
Briggs, Henry	4	537
Byrgius, Justus	5	97
Callet, Jean François	5	227
Cantor, Georg	5	537
Cantor, Moritz	5	537
Cardano, Girolamo	5	598
Cauchy, A. L.	6	127
Cavalleri, F. B.	6	137
Cayley, Arthur	6	154
	15	276
Celsius	6	176
Ceva, Tommaso	6	234
Chasles, Michel	6	346
Clairaut, Alexis Claude	7	30
Clebsch, Rudolf Friedrich Alfred	7	79
Clifford, William Kingdon	7	103
Cotes, Roger	8	57
Cournot, Antoine Augustin	8	114
Dedekind, Richard	15	76
De La Hire, Philippe	8	606
Demoivre, Abraham	8	670
De Morgan, Augustus	8	672
Descartes, René	8	718
Diophantus of Alexandria	9	137
Ditton, Humphrey	9	197
Dodgson, Charles Lutwidge	9	221
Dupuis, Nathan Fellowes	9	415
Esson, William	10	518
Euclid of Alexandria	10	563
Euler, Leonard	10	574
Fauque De Jonquières, Jean Phillipe Ernest	11	64
Favaro, Antonio	11	69
Fermat, Pierre de	11	125
Ferrers, Norman Macleod	11	139
Fibonacci, Leonardo	11	165
Fields, John Charles	11	187
Fine, Henry Burchard	11	217
Forsyth, Andrew Russell	11	495
Fourier, Jean Baptiste Joseph	11	549
Fraunhofer, Joseph von	12	28
Fuchs, Immanuel Lazarus	12	141
Fujita, Sadusake	12	150
Galois, Evariste	12	252
Gauss, Karl Friedrich	12	342
Gergonne, Joseph Diez	12	495
Greenhill, Sir George	13	431
Gregory, James	13	458
Gregory, Olinthus Gilbert	13	458
Gunter, Edmund	13	573
Günther, Siegmund	15	574
Hachette, Jean Nicholas Pierre	13	606
Hadamard, Jacques Solomon	13	608
Hadley, John	13	610
Halley, Edmund	13	648
Hamilton, Sir William Rowan	13	660
	23	69
Harriot, Thomas	13	723
Helmholtz, Hermann Ludwig Ferdinand von	14	85
Hermite, Charles	14	183
Herodotus	12	451
Hero of Alexandria	12	452
	14	185
Hippocrates of Chios	12	452
Hirsch, Meyer	15	202
Honda, Teiken	12	150
Horner, William George	14	385
Hutton, Charles	14	580
Ivory, Sir James	15	567
Jabir ibn Aflah	27	63
Jacobi, Karl Gustav Jakob	15	589
Jordan, Marie Ennemond Camille	16	209
Jerrard, George Birch	16	27
Kästner, Abraham Gotthelf	16	314
Kepler, Johann	16	374
	24	615
Killing, Wilhelm	16	412
Klein, Felix	16	470
Koenigsberger, Leo	16	507
Königs, Paul Xavier Gabriel	16	517
Kovalevsky, Sophie	16	536
Kummer, Ernst Eduard	16	555
Kronecker, Leopold	16	544
Lacroix, Sylvestre François	16	639
Lagrange, Joseph Louis Comte	2	469
	16	651
Laguerre, Edmond Nicolas	16	652
Lamb, Horace	16	670
Lambert, Johann Heinrich	16	672
Laplace, Pierre Simon, Marquis de	16	743
Laussedat, Aimé	17	113
Legendre, Adrien Marie	17	241
Leibnitz, Gottfried Wilhelm von	11	406
	15	202
	17	261
Lemoine, Emile Michel Hyacinthe	17	280
Le Rond, Jean	8	415
L'Hôpital, Guillaume François Antoine	17	343
Libri-Carrucci Della Sommaia, Guillaume Brutus Icile Timoléon	17	395
Lie, Sophus	15	202
Lobachevsky, Nicholas	17	551
Lobatchewsky, Nicholas Ivanovitch	17	551
Lubbock, John William	17	712
Maclaurin, Colin	18	75
Magnus Celsius	6	176
Malfatti, Giovanni Francesco Giuseppe	18	165
Maupertius, Pierre Louis Moreau de	18	449

Biographies — cont'd	Vol.	Page
Menæchmus	21	271
Menelaus	12	452
Michell, John Henry	19	18
Mitlag-Leffler, Magnus Gustaf, Baron von	19	271
Monge, Gaspard	19	353
Montucla, Jean Étienne	19	419
Moseley, Henry	19	497
Napier, John	19	694
Neumann, Karl Gottfried	20	99
Newton, Isaac	11	406
	15	202
	20	289
Newton, John	20	291
Nonius, Petrus	20	499
Nuñes, Pedro	20	499
Paccioli, Luca de Borgo	21	87
Paccioli, Lucas di Borgo	21	90
Pacioli, Luca de Borgo	21	87
Paciuolo, Luca de Borgo	21	87
Pacinolo, Lucas di Borgo	21	90
Painleve, Paul	21	106
Pappus	21	270
Pell, John	21	485
Peuerbach, George von	21	698
Pisano, Leonardo	11	165
Pisanus, Leonardus	22	117
Plücker, Julius	22	252
Poincaré (Jules), Henri	22	280
Poincaré, Lucien (Antoine)	22	280
Poisson, Siméon Denis	22	284
Powell, Baden	22	475
Purbach, George von	21	698
Ramée, Pierre	23	201
Recarde, Robert	23	271
Riemann, Georg Friedrich Bernhard	23	515
Roberval, Giles Personne	15	202
	23	575
Roberval, Personier de	23	575
Robins, Benjamin	23	577
Routh, Edward John	23	727
Russell, Bertrand (Arthur William)	23	783
Sacrobosco, Johannes de	24	98
Salmon, George	24	190
Seki Kowa	24	534
Seki Shinsuke Kowa	24	534
Shapp, Abraham	24	661
Simson, Robert	25	30
Smith, Henry John Stephen	25	120
Somerville, Mary Fairfax	25	251
Spottiswoode, William	25	445
Stewart, Matthew	25	644
Sturm, Jacques-Charles-Francois	25	758
Sylvester, James Joseph	15	203
	15	276
	26	158
Takakazu	24	534
Tartaglia, Nicola	26	275
Taylor, Brook	26	297
Thales	12	451
Todhunter, Isaac	26	668
Toise	18	730
Torricelli, Evangelista	26	711
Vernier, Pierre	28	32
	28	33
Vieta, François	28	83
Wallis, John	28	242
Whewell, William	29	254
Wolff, Christian	29	441

MEAT AND MEAT PRODUCTS

General	Vol.	Page
Abattoir	1	8
Animal oils	20	626
Animals slaughtered for food	18	492
Australian frozen meats	2	600
Bacon	3	26
Beef	18	484
canned	18	485
carcass, classes and grades of	18	484
cured, products	18	485
cuts	18	485
grading, factors in	18	485
jerked	16	26
roast	18	485
smoked	18	485
Bone marrow	4	213
Bone phosphate	11	147
Bone, uses of	4	213
Butterine	5	90
Canned meats, composition of	11	437
Cattle and meat industry in Argentina	17	54
Cattle and meat industry in Latin America	17	54
Cattle and meat industry in Nicaragua	17	59
Cattle and meat industry in Panama	17	59
Cattle and meat industry in Paraguay	17	59
Cattle and meat industry of Russia	24	45
Cattle and meat industry in Uruguay	17	60
Cattle and meat industry in Venezuela	17	61
Charqui	6	336
Cold storage	7	238
Glycerin	25	87
Hair manufactures	13	625
Hams	13	651
	18	486
Hogs, dressed	18	485
Lamb	18	486
carcass, classes and grades	18	486
cuts	18	487
Lard	16	747
	18	486
adulteration of	1	158
compounds	18	486
leaf	16	747
substitutes	18	486
Latin America, meat industry	17	54
Meat	18	484
and meat production	18	493
animals of principal countries	18	495
by-products	18	490
canning of	18	490
chemical composition of	18	493
consumption	18	495
curing and preservation by salting, smoking, etc	18	489
cuts, boiling	18	487
frying	18	487
retail	18	487
roasting	18	487
soup and broth	18	488
stewing	18	487
dietetic value of	18	493
dry salt	18	486
dry salting	18	489
extract	10	673
	18	488
fresh, packing	18	488
imported, inspection of	18	483
industry of Australia	2	600
inspection	18	482
ante-mortem	18	482
law of 1906	1	250
post mortem	18	483
statistics	18	484
market classes and grades	18	484
packing	18	488
	18	494
packing industry of Canada	5	446
per capita and per family consumption in the United States	18	496
per capita consumption in the United Kingdom	18	496
pickling	18	489
production	18	495
products, exported from the United States	18	496

General — cont'd	Vol.	Page
products, imported, inspection of	18	483
products, inspection of	18	483
Mutton	18	486
carcass, classes and grades of	18	486
cuts	18	487
Oleomargarine	5	86
	20	659
	25	86
Pemmican	21	491
Pork	22	374
	26	138
cuts	18	486
miscellaneous	18	486
products	18	485
Refrigeration and refrigerating machinery	23	312
Sausage	24	320
casings	25	86
Sausages, bologna	24	321
smoked	24	321
Shoulders	18	486
Slaughter-house	1	8
by-products	25	85
Soaps	25	87
Stearin	16	747
	25	86
Suet (tallow)	26	229
Tallow	26	229
Tankage	26	244
Tasajo	17	56
Veal	18	485
carcass	18	485
cuts	18	485
Violin strings	25	86
Xarque	17	56
See also Shoes, Hides and Leather.		

MEDICINE AND SURGERY

General

General	Vol.	Page
Abnormal digestion of the stomach	25	674
Abortion	1	45
	4	11
Abreaction	22	734
Abscess, alveolar	20	322
Acetonæmia	4	109
Acidosis	1	92
Acne	1	94
	22	19
	22	20
Acromegaly	1	104
	26	173
Acromegalics	26	174
Actinomycosis	1	107
	4	408
Acute endocarditis	14	39
Acute rheumatism	23	459
Addison's disease	1	133
	1	153
Adiposis dolorosa	1	138
African lethargy	25	96
Agalactia	1	229
Agoraphobia	1	239
Agraphia	2	56
Ague-cake	25	426
Air beds and cushions	1	276
Albinism	1	338
Albumin	27	594
Albuminuria	1	340
Alcoholism	1	348
	11	90
Alopecia	1	434
areata	22	20
Alum poisoning	1	453
Amaurosis	1	468
Amblyopia	1	472
Amebic dysentery	24	297
Amenorrhea	26	173
Ammonæmia	4	109
Amylaceous dyspepsia	25	675
Anæmia	1	603
	4	109
	14	38
	14	366
	27	398
Biermier's	21	602
brickmakers'	14	366
pernicious	21	602
tunnel-workers'	14	366
Anæsthesia	1	603
Analgesia	1	606
Anchylostomiasis	1	653
	14	366
Aneurism	1	680
	4	114
Angina, Ludwig's	20	453
pectoris	1	682
	22	267
Ankylostomiasis	14	366
Anorexia	2	83
Anosmia	2	6
Antenatal disease	6	477
Anthony, Saint, Fire of	2	17
Anthrax	2	19
	18	578
Antiarin	2	26
Antimony-poisoning	2	35
Anxiety neuroses	7	542
Aphasia	2	56
	25	380
Aphemia	2	56
Aphonia	2	57
Aphthæ	2	57
Aphthous stomatitis	2	57
Apoplexy	4	398
	27	271
Apraxia	2	101
Arcus senilis	2	189
Army nurse corps	18	551
Arteries, diseases of	2	348
hardening of	2	349
Arteriosclerosis	2	349
	4	114
Arthritis	2	351
	16	188
deformans	2	351
	20	646
rheumatoid	20	646
Arthrocace	2	352
Arthrodynia	2	352
Arthropathy	2	352
Asphyxia	2	407
Asthenia	2	446
Asthenopea	2	446
Asthma	2	446
bronchial	22	267
Astigmatism	2	447
	28	139
Atalectasis	17	746
Ataxia	2	488
motor	2	488
static	2	488
Atheroma	2	497
	4	114
	20	645
Athetosis	2	497
Atrophy, acute yellow	17	533
brown	20	645
Auscultation	2	559
	4	111
Autistic thinking	8	633
Auto-intoxication	2	640
Automatism	2	642
Aviation sickness	2	678
Bacteriæmia	4	111
Baldness	3	75
	22	19
Barbers' itch	3	236
Basedow's disease	3	303
Bell's palsy	10	698
Beriberi	3	550
	9	159
	16	280
Bilharzia	3	702
Biliousness	3	702
Birth-marks	22	20
Black death	4	652
Black smallpox	25	107
Black vomit	4	39
Bladder, diseases of	4	50
Bladderworm	4	51
Bleeders	4	75
Bleeding	4	75
Blenorrhœa	4	79
Blepharitis	4	79
Blindness	4	87
Blister	4	89

General — cont'd	Vol.	Page
Blood, diseases of	4	108
poisoning	4	111
pressure	4	111
vessels, diseases of	4	113
Boils, plague of	25	107
Botulism	4	320
	26	736
Bradycardia	22	267
Brain, diseases of	4	398
syphilis of	4	399
tumors of	4	403
Bright's disease	4	109
	22	248
acute	16	403
chronic	16	403
Bromidrosis	4	576
Bromism	4	577
Bronchitis	4	577
	6	480
Bronchocele	4	578
Bronchopneumonia	6	480
	17	745
Bubonic plague	4	652
	15	119
	18	575
Bulimia	2	82
	5	6
Bullæ	5	14
Bursitis	5	67
Cachexia	5	129
Cachexy	5	129
Cæcum, diseases of	5	136
Caisson disease	5	150
Calculus	5	162
Camp diseases	5	272
Cancer	5	490
abdominal malignant	22	20
of the stomach	25	674
superficial	22	9
Cardiac dilatation	20	645
Cardialgia	5	599
Carditis	5	603
Catalepsy	6	41
	7	542
Catarrh	6	46
intestinal acute	15	270
intestinal chronic	15	270
Catarrhal cholangitis	12	240
Catatonia	6	46
Catatonic type	8	634
Causes of deafness	8	529
Causes of death	8	540
Causes of disordered sleep	25	95
Causes of idiocy	14	666
Causes of seasickness	24	492
Central convolutions	4	405
Cerebrospinal meningitis	11	90
Cerebral rheumatism	23	460
Chapped hands	6	299
Chancroid	6	283
Cheyne-Stokes respiration	4	404
	6	434
Chicken-pox	6	457
Children, diseases of	6	477
Childpox	25	106
Chloasma	6	574
Chlorosis	4	109
	6	579
Choking	6	584
Cholæmia	4	109
Cholecystitis	12	240
Cholera, Asiatic	6	584
	18	575
infantum	6	586
Chorea	7	616
or Saint Vitus' dance	6	592
Chromatopsia	6	631
Chronic rheumatism	23	460
Chyluria	11	205

General — cont'd	Vol.	Page
Classification of diseases	9	157
Climacteric	7	104
Climate in the treatment of disease	7	111
Clinic	7	113
Coal-gas poisoning	14	89
Colic	7	250
Cold	7	236
Color-blindness	7	311
	28	137
Coma	7	347
Comedones	7	354
Compressed air disease	5	150
Compulsion neuroses	7	543
Compulsions	22	744
Compulsive acts	22	744
Confluent smallpox	25	107
Confusion	7	499
Congenital disease	7	499
Conjunctivitis	20	707
Congestion, chronic passive	21	396
Consciousness, disorders of	7	541
Contagion	7	582
in cancer	5	492
Constipation	7	563
	18	420
Convulsions	6	481
	7	616
	15	115
	27	271
Coryza	8	31
Cough	8	93
Cowpox	16	15
	27	625
Coxalgia or coxitis	8	141
Cramp	8	152
Cretin	11	90
Cretinism	6	481
	8	185
	14	667
Cretinoid degeneration	8	186
Crisis	8	209
Croup	8	244
Cyanosis	8	350
	14	40
Cystinuria	8	374
Cystitis	4	50
	8	374
Dactylitis	8	389
Dacryoma	8	389
Dacrocystitis	8	389
Dalichodactyly	8	416
Dancing disease	8	448
Dandruff	8	450
	22	135
Day blindness	28	139
Deaf	8	528
Deafness	8	537
causes of	8	529
Deaf and dumb	8	528
Deaf-mutes	8	528
Death	8	539
causes of	8	540
signs of	8	539
Defective nutrition	7	81
Defectives	22	743
Degeneracy	8	594
Delirium	8	622
	22	744
tremens	8	622
Delusions	8	630
	22	744
Delusion	14	699
Dementia precox	8	632
	18	446
Dengue fever	8	677
Depilatories	8	702
Dermatitis	8	713
seborrhoica	22	135

General — cont'd	Vol.	Page
Diabetes	4	109
	22	270
cause of	9	54
insipidus	9	54
mellitus	9	54
	26	173
Diagnosis	9	55
	26	180
Diarrhœa	9	71
treatment of	9	72
Diathesis	9	73
Diet for the sick	9	104
Dietetics	9	101
Digestive disturbances	6	478
Dilatation	14	39
Dilatations of the stomach	25	676
Diphtheria	9	139
	18	576
	22	761
	26	732
antitoxin treatment	9	140
laryngeal	20	454
period of incubation	9	139
treatment	9	139
Diplegia	14	667
Diplegia	21	284
Diplopia	9	140
	28	139
Dirt eating	12	472
	14	366
Disease	9	157
causes of	21	29
mental	15	150
	18	642
	21	398
organic brain	27	271
propagation of	9	158
Diseases	26	739
autogenous	9	159
of childhood	9	159
chronic	9	157
congenital	9	157
constitutional	9	157
contagious	9	160
exanthematic	21	397
infectious, division of	18	555
local	9	157
nervous	9	157
	20	81
occupational	9	162
of nutrition	6	481
of occupation	9	158
of old age	9	159
of the rectum	23	276
of the skin	25	74
parasitic	21	290
protozoal	22	695
sensori-motor	20	81
traumatic	9	157
Discrete smallpox	25	107
Diseased tonsils	14	39
Disease, idiopathic	9	157
Disorders of sleep	25	95
Distribution of diseases	9	188
Dizziness	4	404
Dochmiosis	14	366
Doctor	9	216
of medicine	9	217
Dropsy	9	340
	22	18
Drowning	9	341
treatment of	9	342
Drug habits	9	343
sedatives	9	343
Drunkenness	9	354
Dry râles	23	198
Duke's disease	11	561
Duodenitis	15	270
Dylogias	25	380

General — cont'd	Vol.	Page
Dysarthrias	25	380
Dysentery	9	469
	14	39
amœbic	22	695
Dyshyperdiastematia	26	174
Dyshyperovaria disturbances	26	174
Dyspepsia	9	470
Dysphasias	25	380
Dyspnea	14	40
Dyspnœa	4	578
Dysphonia	9	471
Dysmenorrhœa	9	470
Dysuria	9	471
Ear diseases	6	480
Ecchymoses	21	656
Eclampsia	7	616
Ecthyma	9	570
Ectropion	9	570
Eczema	9	575
Egyptian chlorosis	14	366
Electricity, cause of death by	10	181
Electric sunstroke	10	137
Elephantiasis	10	223
	11	205
	19	507
Embolism	10	275
cerebral	4	398
Emphysema	10	300
	17	746
	23	481
senile	20	644
Empyema	10	309
	22	248
Encephalitis	10	314
Encephalocele	10	314
Endarteritis deformans	4	114
Endarteritis obliterans	4	114
	22	770
Endermic	10	319
cretinism	8	186
deafmutism	8	187
Endocarditis	10	320
	14	39
Endocrinopathies	10	320
Enuresis	10	333
Enteritis	10	399
Eosinophilia	10	409
Epididymitis	10	420
	13	48
Epiglottiditis, acute	20	454
Epilepsy	6	481
	7	616
	10	422
	18	646
	27	271
Epileptic constitution	10	425
Epileptic idiocy	14	667
Epileptic psychosis	10	425
Ergotism	10	474
	11	434
Erotomania	10	484
Eructations	9	113
Eruption	10	486
difficult	26	323
impaction	26	323
Erysipelas	10	487
Erythema solare	22	19
Etiology	21	395
of skin diseases	25	75
Exanthemata	10	617
Exophthalmic goiter	10	321
	10	641
	14	38
Expectoration	10	642
Eye strain	10	682
Facial neuralgia	10	698
Facial nerve paralysis	10	698
Facial paralysis	10	698
Faint	10	713
Farsightedness	28	139

General — cont'd	Vol.	Page
Fatigue	11	56
Fatuity	11	61
Febris recurrens	23	336
Feeble-minded	11	89
Feeble-mindedness	4	402
types of non-hereditary	11	91
Fetor	11	158
Fever	11	162
bilious	3	702
blackwater	4	47
in children	15	115
enteric	27	240
ephemeral	19	108
Mediterranean	4	625
military	19	59
puerperal	22	790
Texas	16	504
typhoid	11	90
	11	353
	14	39
	15	119
	18	575
	27	240
typhus	18	575
	27	243
trench	18	566
Fevers of infancy and childhood	6	481
Fibrosis	20	645
Filariasis	11	205
Fit	11	297
Food poisoning	11	433
Food substances, classification of	9	102
Fourth disease	11	561
Freckles	12	30
Furunculosis	20	451
Gallstones	5	162
	17	535
	25	676
Gas poisoning	12	312
Gastralgia	22	267
Gastritis	12	333
	25	676
Gastroptosis	25	676
General paresis	12	375
Genetous idiocy	14	667
Geophagia	14	366
Geophagism	12	472
Geophagy	12	472
Germ diseases	9	157
Gigantism	12	647
	26	173
Glanders	12	680
	20	454
German measles	12	500
Glaucoma	12	712
Gleet	12	714
Glossitis	12	720
Glottis, œdema of	12	720
Goitre	13	8
exophthalmic	21	398
	26	172
Gonorrhea	1	698
	13	46
	14	39
cause of	13	46
complications	13	47
definition	13	46
in women	13	47
Gonorrheal arthritis	13	47
Gonorrheal ophthalmia	6	478
	13	47
Gout	13	85
	13	87
cause of	13	86
Gouty diathesis	13	86
symptoms	13	85
Grip	18	578
Grippe	15	124

General — cont'd	Vol.	Page
Ground itch	14	367
Grutum	19	102
Gums, inflammation of	26	363
Hæmatemesis	13	612
Hæmaturia, Egyptian	27	39
Hæmoglobinæmia	4	109
Hæmophelia	4	113
Hæmorrhage, cerebral	4	398
Hæmothorax	22	247
Hallucination	13	649
	14	699
	22	744
Haredo-syphilis	26	179
Hay fever	14	14
Headache	4	404
	11	162
	14	27
sick	19	48
Healing, art of	14	343
Heart, diseases of	14	38
infection of	14	39
Heat exhaustion	26	38
Heberden's nodes	2	352
Hebephrenic types	8	633
Hectic fever	14	62
Heine medius disease	22	304
Heller's test	27	595
Hematochyluria	11	205
Hematuria	14	88
Hemeralopia	28	139
Hemianæsthesia	14	88
Hemiplegias	4	399
	11	90
	14	88
	14	667
	21	284
Hemophilia	14	90
	14	127
Hemoptysis	14	90
Hemorrhage, internal	4	75
intestinal	15	270
Hemorrhagic smallpox	25	107
Herpes	14	143
Hiccough	14	167
protracted	22	267
Hiccup	14	167
High-grade idiots	14	667
Hives	27	599
Hogkin's disease	22	728
Hookworm disease	14	366
Hooping cough	14	369
Hordeolum	25	759
Housemaids knee	5	67
Hospital corps (United States army)	18	551
Huntington's disease	14	519
Hydræmia	4	109
Hydrocephalus	4	402
	6	480
	7	617
	11	89
	14	560
	14	667
	26	173
Hydronephrosis	16	405
Hydropathy	14	582
Hydrophobia	9	231
	18	577
Hydrorrhœa, nasal	20	451
Hydrothorax	14	588
Hyperæmia	22	247
Hypermetropia	28	139
Hyperopia	14	602
	28	139
Hypnosis	22	733
Hypoadrenalemia	1	152
	1	153
Hypoadrenalemias, partial	1	153
Hyperooaria	26	173
Hyperpyrexia	11	163

General — cont'd	Vol.	Page
Hypertrophy	14	39
Hypobromite process	27	595
Hypophyseal predominance	10	323
	26	174
Hysteria	7	616
	14	611
	18	645
	27	271
Hysterical conversions	7	542
Ice	14	621
Ichthyosis	14	654
Idiocy	14	666
treatment of	14	667
Idiosyncrasy	14	668
Idiots	11	89
Illusion	14	699
Imbeciles	11	89
	14	708
Imbecility	14	666
Impetigo	14	725
Impotency	14	727
Inanition	25	504
Inco-ordination	14	740
Individuals, psychopathic	22	743
Infantile myxedema	8	185
Infantilism	26	173
Infants, artificial feeding of	15	113
substitute feeding of	15	113
Infection	15	119
Infirmaries, regimental camp	18	561
Influenza	14	27
	15	124
	18	578
Insanity	11	90
of adolescence	8	633
Insomnia	15	166
Intelligence quotient	11	89
Interstitial nephritis	14	38
Intestine, disease of	15	269
Intestinal calculi	23	276
Intestinal tuberculosis	14	39
Intoxication	15	271
Iritis	15	360
Itch	15	557
Ivy poisoning	15	568
Jaundice	15	753
	17	534
Jejunum	16	19
Joint diseases	24	757
Jungle fever	16	249
Kakke	16	280
Kalaazar febrile, tropical	16	280
Kidney disease	7	616
Kidneys, diseases of	16	403
inflammation of	22	18
movable or floating	16	405
Kindsblattern	25	106
Kindspocken	25	106
Kleptomania	16	472
	22	744
Knee jerk	16	478
La grippe	6	480
Laryngismus stridulus	8	245
	16	755
Laryngitis, acute catarrhal	20	454
dry	20	455
hemorrhagic	20	454
membranous	20	454
pneumatic	20	454
Larynx, neuroses of	20	455
œdema of the	20	454
syphilis of	20	455
tuberculosis of	20	455
Lead poisoning	11	434
Lepra	17	309
tuberculosa	17	310

General — cont'd	Vol.	Page
Leprosy	18	685
	17	310
	18	577
Lethargus	25	96
Lethargy	7	542
Leucæmia	4	100
	17	325
Leucocythæmia	4	109
Leucocytosis	2	79
	4	109
Leucopenia	4	109
Leukæmia	21	398
Lichen piliaris	22	135
Lightning-stroke	17	434
Lipæmia	4	109
Lithæmia	4	109
Liver, circulatory disturbances of	17	532
cirrhosis of	17	533
	21	396
congestion of	17	532
diseases of	17	532
fatty	17	533
hypertrophic cirrhosis of	17	534
parasitic diseases of	17	534
simple atrophy of	17	533
tumors of	17	534
Lobe, occipital	4	406
Lobes, parietal	4	406
temporal	4	406
Lockjaw	18	578
	26	734
Locomotor ataxia	17	588
	22	270
Longsightedness	28	139
Low grade idiots	14	667
Lumbago	17	728
	19	616
	23	461
Lung, abscess of	17	747
gangrene of	17	747
new growth in	17	747
Lungs, acute miliary tuberculosis of	27	123
chronic tuberculosis of the	27	123
congestion of	17	742
diseases of	17	742
embolism of	17	743
œdema of	17	742
Lupus	17	748
	20	451
	22	19
erythematosa	17	748
	22	20
vulgaris	17	748
	22	20
Macrosomia, genital	26	173
Malacosteon	21	26
Malaria	14	27
	15	120
	15	543
	18	159
	18	577
	21	397
	22	695
Malarial cachexia	14	366
Malignant measles	18	479
Malingering	18	166
Malta fever	18	171
Marasmus	18	262
Masturbation	18	420
Measles	11	90
	14	27
	18	479
black	18	479
Medical code	18	537
Medicine and the Catholic Church	6	80
and psychiatry	18	584
internal division of	18	555

General — cont'd	Vol.	Page
Melanæmia	4	109
Melanism	18	601
Melasma	18	601
Meniere's disease	18	630
Meningitis	18	630
	14	27
cerebral	18	631
chronic cerebral	18	631
epidemic cerebro-spinal	18	632
spinal	18	631
sub-acute cerebral	18	631
tubercular	18	631
Mental accidents	14	611
Mental degeneracy	8	595
Mental hygiene	18	648
Mental illness in American army	22	731
Mental stigmata	14	611
Metastasis	18	711
Microcephalic	11	90
Microcephalus	14	666
Migraine	19	48
ophthalmic	19	48
Miliaria	19	59
Milium	19	102
Milk-fever	19	108
Milk-sickness	19	108
Miner's anæmia	14	366
Miryachit	19	223
Miscarriage	4	11
	19	225
Moist râles	22	198
Mollities ossium	21	26
Mongolian idiocy	14	667
Mongolism	6	481
Monomania	19	365
Monoplegia	4	399
	14	667
	19	365
	21	284
Morons	11	89
Mortality of smallpox	25	108
Mosquitoes and malaria	19	506
Mosquitoes and yellow fever	19	507
Mountain-fever	19	530
Mountain sickness	19	538
Mouth, diseases of	19	535
inflammation of	19	535
Mumps	19	562
Muscular atrophy	19	616
Muscles, diseases of	19	616
Muscular dystrophy	19	616
Muscular rheumatism	23	461
Myalgia	23	461
Myelitis	19	659
Myiasis	11	353
	19	660
Myoclonia	19	617
Myopia	19	660
	28	139
Myositis	19	616
ossificans	19	617
Myotonia	19	617
Myxedema	6	480
	19	675
	26	604
Naphtha poisoning	19	692
Narcosis	19	705
Narcotism	19	705
Naso-pharyngeal disease	6	482
Nausea	4	404
	19	782
Nearsightedness	28	139
Negro lethargy	25	96
Nelavan	25	96
Neosalvarsan	18	581
Nephritis, acute	16	403
chronic	16	403
	21	396

General — cont'd	Vol.	Page
Nervous diseases of children	6	480
Nervous disorders	22	734
Nervousness	20	84
Nettle rash	27	599
Neuralgia	20	99
Neurasthenia	20	100
Neurasthenic affections	22	267
Neurasthenic states	7	542
Neuritis	20	101
Neurology	20	101
Neuroses	7	542
	22	744
gastric	25	674
Neurosis	20	101
compulsion	18	645
Neurotic	20	101
Nictitation	20	331
Night-blindness	20	339
	28	139
Nightmare	7	542
	20	341
Non compos mentis	20	394
Nose and throat, disease of	20	449
Nosebleed	20	456
Nosology	20	456
Nostalgia	20	457
Nostrum	20	457
Nutrition: breast feeding	15	113
Nyctalopia	28	139
Nystagmus	20	526
Obesity	20	540
Objective symptoms	25	74
Obsessions	22	744
Obstetrics	20	553
Œdema	14	40
Oikiomania	20	647
Old age, diseases of	20	643
Olfaction, neurosis of	20	451
Oligæmia	4	109
Oligochromæmia	4	109
Oligocythæmia	4	109
Organic diseases of the stomach	25	676
Oöphoralgia	21	57
Ophthalmia	20	707
Osteitis	21	25
Osteomalacia	21	26
Osteomyelitis	21	28
Otalgia	21	40
Otitis	21	44
media	21	44
Ovarian neuralgia	21	57
Ovarian predominance	10	323
	26	174
Ovaries, diseases of	21	57
Oxaluria	21	70
Ozæna	21	84
Ozena	20	451
Pachymeningitis	18	630
Pain	21	104
Palpitation	14	38
	21	219
cardiac	22	267
Palsy	21	283
	29	572
Bell's	3	492
Paludism	21	220
Pancreatitis	21	242
Paradox sensations	8	339
Paralysis	11	90
	21	283
	22	18
acute ascending	21	284
agitans	21	284
Bell's facial	21	284
diphtheritic	21	284
Indian-bow	21	284
infantile	21	284
	22	304

General — cont'd	Vol.	Page
Landry's	21	284
Paralytic idiocy	14	667
Paranoia	18	528
	18	645
	21	286
	22	744
Paranoid type	8	634
Paraplegia	21	284
Parenchymatous tonsilitis	23	97
Paresis	21	283
Para typhoid	27	241
Paroxysmal tachicardia	14	88
Patellar reflex	16	478
Pellagra	9	159
	11	434
	15	543
	17	617
	21	485
Pemphigus	21	492
Percussion	21	572
Pericarditis	21	583
Perinephritis	16	404
Periostitis	21	596
abscess	26	322
Peritonitis	21	597
Perityphlitis	21	598
Personality, disorders of	21	632
Persons, plethoric	22	247
Petechiæ	21	656
Pharyngitis	21	714
atrophic	20	454
follicular	20	454
rheumatic	20	454
Pharynx, diseases of the	20	453
syphilis of	20	454
Phlebitis	4	114
	21	783
Phlegmasia	21	783
Phosphorus-poisonous	21	796
Physician	22	35
Pica	2	83
	22	62
Picrotoxin	22	70
Pimples	22	91
Pityriasis	22	135
capitis	22	135
rosea	22	135
rubra	22	135
simplex	22	135
Plague, great	18	575
Plethora	4	109
	22	247
hydræmic	22	247
Pleurisy	6	480
	8	93
	22	247
fibrinous	22	247
hemorrhagic	22	248
sero-fibrinous	22	248
tuberculous	22	248
Plica	22	248
polonica	22	248
Pluriglandular syndromes	10	323
Pneumogastric nerve, diseases of	22	267
Pneumokoniosis	20	644
Pneumonia	4	578
	17	743
	18	576
	21	397
acute tuberculous	27	123
forms of	26	736
lobar	6	480
	17	743
Pneumonoconiosis	17	746
Podagra	22	270
Poison gas	18	565
Poisoning, alcohol	26	730
aniline	1	695
arsenic, treatment of	26	730

General — cont'd	Vol.	Page
arsenical	2	333
belladonna	26	730
by alkalis	26	729
by eggs	9	727
lead	17	173
by oxalic acid	21	70
	26	729
petroleum	21	695
phenol	26	730
Poisons, alkaloidal	26	730
aniline	26	730
glycoside	26	730
Poliomyelitis anterior	21	284
	22	304
Polydipsia	22	329
Pompholyx	21	492
Porencephalus	14	667
Pott's disease	22	451
Presbyopia	28	140
Preventive treatment of rheumatism	23	461
Prickly heat	19	59
Prophylactics	18	573
Prophylaxis, mental	22	734
Prostatitis, acute	22	670
Pruritus	22	715
hiemalis	22	715
localized	22	715
Pseudoleucæmia	22	728
Psoriasis	22	729
Psychiatry	22	730
present-day	22	730
Psychoanalysis	22	733
cure in	22	734
principles of	22	733
Psychological examination	22	732
Psychological instruction, need of	18	586
Psychology in medicine	18	584
Psychology, division of	18	555
physician's need of	18	585
Psychology of the abnormal	22	743
Psychoneuroses	7	542
	22	744
Psychophysics	22	745
Psychoses	7	544
	22	730
Psychosis	14	666
chronic delusional	22	745
Psychotherapy	15	150
Pterygium	22	749
Ptosis	4	400
	22	753
Ptyalism	24	189
Puerperal eclampsia	22	790
Puerperal fever	18	577
Pulse, abnormally slow	22	267
Purpura hæmorrhagica	4	113
Putrefaction	8	539
Pyæmia	16	404
	23	37
Pyelonephritis	16	404
Pylitis	16	404
Pyonephrosis	16	404
Pyorrhœa alveolaris	23	39
Pyromania	23	44
Pyrosis	23	45
Quinsy	23	97
Rachitis	7	617
Râles	23	198
Rash	23	219
millet-seed	19	59
Ration, estimated life	9	104
work	9	104
Raynaud's disease	23	241
Regurgitation	14	39
Relapsing fever	23	336
	23	337
Respiration, artificial	23	418
efforts to restore	22	798

General — cont'd	Vol.	Page
restoring suspended.	13	643
Respiratory diseases....	6	479
Rest cure	19	268
	23	419
Reynaud's disease.....	22	270
Rheumatism	16	188
	23	459
acute	23	459
chronic	23	460
treatment	23	460
	23	461
preventive	23	461
Rheumatoid arthritis...	23	461
Rhinitis	20	449
acute	20	449
atrophic	20	450
chronic	20	450
Rickets	23	481
	23	508
Rigg's disease.....	23	39
Rodent ulcer	22	20
Roseola	23	698
Rupia	23	776
escharotica	23	776
prominens	23	776
simplex	23	776
Saint Vitus' dance.....	2	488
Sapræmia	4	111
Scabies	15	557
	23	345
Scald-head	24	346
Scarlatina	24	356
Scarlet fever.....	24	356
treatment	24	357
Sciatica	24	412
Schizophernia	8	633
Scriveners' cramp.....	20	572
Scrofula	24	455
Scurvy	24	470
Seasickness	24	492
Senility	24	562
Senile climacteric.....	24	562
toute ensemble of..	24	563
Sensorial idiocy.....	14	667
Septicæmia	4	109
	4	111
	21	397
puerperal	21	397
Shell shock.....	18	566
	22	731
Shingles	14	143
	24	715
Shortsightedness	28	139
Sick, foods for.....	24	779
Sight, weak	2	446
Simple catarrhal jaundice	17	535
Skin and skin diseases.	25	70
Sleep, disordered.....	25	95
Sleeping sickness.....	4	625
	9	161
	11	205
	13	612
	16	504
	22	695
	25	96
Smallpox	1	698
	11	228
	16	15
	18	576
	22	19
	25	105
treatment of.....	25	108
types of.....	25	107
Snoring	25	147
Sobbing	22	267
	25	158
Somnambulism	7	541
	25	252
Sorghum poisoning....	25	265
Spasm	25	364
Spasmophilia	6	481

General — cont'd	Vol.	Page
Speech, defects of.....	25	379
Spotted fever.....	25	445
Splenitis	25	426
Sporadic cretinism.....	8	185
Spurious hydrocephalus.	14	560
Squinting	28	140
Stammering	25	474
Starvation	25	504
Stenosis	14	39
Sterility	25	628
Stomatitis	19	535
Strabismus	28	140
Stroke	27	271
Strychnine poisoning ...	26	730
Stuttering	25	474
	25	758
Sterility	13	47
Sty	25	759
Stye	25	759
Strangulation	25	710
Strangury	25	710
Stiff-neck	23	461
Sub-acute rheumatism..	23	460
Subconsciousness	25	761
Subjective symptoms...	25	74
Sunburn	26	30
Sunstroke	26	38
Superfœtation	26	39
Suprarenal genital syndrome	26	173
Suprarenal predominance	10	323
	26	174
Sweating sickness.....	26	112
Sycosis	26	155
Symptoms	26	170
of diarrhœa.....	9	71
psychological	22	744
of scurvy	24	470
of shock.....	24	788
of smallpox	25	107
Syndromes, endocrinous.	26	171
pluriglandular	26	174
Synovitis	16	188
Syphilis	1	698
	11	90
	21	397
	26	177
cerebral, arterial types	4	400
development	26	177
etiology of.....	26	177
hereditary	4	401
nasal	20	451
of the cranial bones.	4	399
responsible for mental disease.....	22	732
secondary stage....	26	178
transmitted	26	178
treatment	26	180
Syphilitic heredity	26	178
	26	179
Syphilitic meningitis of the base.....	4	399
Syphilitic meningitis of the convexity.....	4	400
Systolic murmur.....	14	39
Tabes dorsalis.....	26	197
Tachicardia	14	38
	14	40
	22	267
Tarantism	26	265
Tarantismus	26	265
Teeth, diseases of.....	26	322
Temperature	11	162
Tetanus	13	572
	15	119
	18	578
	26	455
	26	734

General — cont'd	Vol.	Page
Tetany	6	481
	26	173
Thermometer, clinical...	26	540
Throat, malignant sore.	22	761
Thrombosis	4	114
cerebral	4	398
Thrush	26	598
treatment	26	598
Thyroid gland, diseases of	26	604
Thyroid instability.....	26	172
Thyroid insufficiencies..	26	172
Thyro-ovarian disturbances	26	174
Tic-douloureux.....	26	610
Tonsilitis, follicular....	20	453
Tonsils, diseases of....	20	453
Toothache	26	323
	26	699
Torticallis	23	461
Tox albumins poisoning	26	730
Trance	7	542
Traumatism	27	272
Treatment of chronic tuberculosis of the lungs	27	124
Treatment of typhoid fever	27	242
Treatment of oxalic poisoning	26	729
Trichinosis	11	434
symptoms	27	54
Trichoma	22	248
Tropical chlorosis.....	14	366
Trismus nascentium....	27	76
Tuberculin	27	120
Tuberculosis	11	351
	16	188
	18	576
	27	120
bone	27	123
diagnosis of.....	27	124
etiology of.....	27	120
intestinal	27	123
laryngeal	27	123
lymph-gland	27	123
of the kidney.....	16	404
predisposing causes of	27	121
pulmonary	22	20
race distribution ...	27	120
Tunnel disease.....	14	366
Typhlospasm	5	137
Typhoid	14	27
Typhoid fever	11	90
	11	353
	14	39
	15	119
	18	575
	27	240
symptoms of.....	27	242
treatment	27	242
Typhus	22	695
fever	18	575
	27	243
Tyrotoxicon poisoning..	27	247
Ulcer, perforating.....	22	270
Ulcers, nasal.....	20	451
Uncinariasis	14	366
Unconscious cerebration.	27	271
Unconsciousness	27	271
Uniglandular syndromes	10	321
Uræmia	4	109
	7	616
	16	403
	27	587
Urinary analysis.....	27	594
Urinary calculi.....	5	163
Urine, mixed.....	27	594
Urticaria	27	599
Uterine inflammation...	7	81

General — cont'd	Vol.	Page
Vaccinia	27	625
Vagatonic crisis	26	173
Variolæ vaccinæ	16	15
Venereal disease	7	81
Vertigo	28	40
laryngeal	20	455
Vision, binocular	28	139
defects of	28	139
double	28	139
Vocal chords, paralysis of the	20	455
Vomiting	4	404
	9	113
	18	577
	22	267
	28	183
Walking typhoid	27	241
Wart	28	767
Wassermann test	4	109
	26	180
Waterbrash	23	45
White plague	18	576
Whooping cough	4	577
	11	90
Witzelsucht	4	405
Womb, and its diseases	29	456
Word-deafness	25	381
Worm fever	29	558
Writer's cramp	29	572
Yaws	29	617
Yellow fever	11	225
	18	576
	22	695
	29	624
Yellow jack	29	628
Zymotic disease	29	743

History of Medicine

History of Medicine — cont'd	Vol.	Page
African pharmacy	21	710
American oil	9	345
American pharmacy	21	711
Anæsthetics, history of	26	86
Anatomy, history of	1	627
Ancient hypotheses	14	344
Anticyra	2	27
Antipyrene	15	285
Arum	9	296
Asclepiades	2	381
Asiatic cholera	18	575
Assyrian pharmacy	21	709
Balm of Gilead	3	110
Barberries	24	803
Bedeguar	3	413
Bedlam	14	429
Beech drops	5	493
Berberis	24	803
Bethlehem Hospital	14	429
Black death	4	33
Bloodroot	24	803
Body, care of, Jewish	16	124
Botrychium lunaria	24	804
Brunonian system	4	606
Bubonic plague	18	575
	22	759
	22	760
Cancer-root	5	493
Carbolic acid discovered	15	283
Castration	6	18
Chamomile	6	269
Charaka-Samhita	21	710
Chinese drug store	9	350
Chinese pharmacy	21	710
Chloral-hydrate	15	283
Cholera bacillus isolated	15	285
Chloroform	15	283
Christianity, advent of	14	427
Civilization, history of, pre-Christian	7	25
Clothes	16	124
Cocaine	15	283
Condurango, or Cundurango	7	484
Contributions to medical science	18	582
Cundurango	8	301
Cynomorium	8	366
Defective children, colony system for	14	429
Development of medicine in the United States	18	572
Development of specialism	18	573
Diphtheria bacillus isolated	15	285
Discovery of osteopathy	21	30
Disease demons	7	25
Dispensary, oldest institution	9	167
Earliest hospital foundation in the West	14	428
Egyptian pharmacy	21	709
Eighteenth century surgery	26	75
Elixir	9	348
	21	710
Elixir of vitriol	21	710
Elixir sacrum	21	710
Elixir stomachicum	21	710
Evolution of organic chemistry	9	346
Evolution of pharmacy	21	710
Fall trank	10	733
Father of American surgery	26	83
First nose and throat hospital in the world	14	429
First pharmacopœia, The	9	346
First recorded cases of the endemic hookworm disease of the United States	14	367
First removal of lower jaw	26	84
First special hospitals for the insane	14	429
First systematic shoulder joint amputation	26	84
First to receive a doctor's degree	26	80
First transfusion of blood	26	75
First use of elastic bandage	26	84
Flagellants, Brotherhood of	4	33
Fluid extracts	9	348
	21	712
Food Laws of Israel	16	121
Food Laws of Manu	16	121
Geneva Convention	12	395
Geranium robertianum	24	803
Ginseng	24	803
Great plague	18	575
Health Laws, Jewish	16	160
Heathen Food Laws	16	123
Hellebore	2	27
Hepatica triloba	24	803
Herb-robert	24	803
History of syphilis	26	177
History of the germ theory	9	161
Homeopathy introduced	15	282
Hospitallers	14	433
Hospitals, construction	14	429
history	14	427
of the Hospitallers of Saint John of Jerusalem	14	428
Hydrophobia bacillus isolated	15	285
Indian doctors	21	712
Introduction of ether	26	87
Invention of skin grafting	26	85
Japanese pharmacy	21	710
Jews in medicine	16	83
Laudable pus, doctrine of	14	429
Legislative history of osteopathy	21	32
Leproid impurity	16	126
Liverwort	24	803
Lockjaw bacillus isolated	15	285
Lungwort	17	747
Lupus	22	761
Madstone	18	109
Malaria	22	760
Malarial fever	22	760
Mandragora	24	803
Mandrake	24	803
Medicine dance	18	583
Medicine, history of	18	571
Medicine in 15th century	11	193
Medicine Man	18	584
	21	710
Medicine, recent progress in	18	579
Methods of investigation	18	572
Military lazarettos	14	427
Modern hospital revival	14	429
Moonwort	24	804
Morphine, first organic alkaloid known	15	282
Nineteenth century surgeons	26	76
Nineteenth century surgery	26	75
Nobel Prizes	20	383
Orthopedic hospitals	14	429
Pepsin	9	348
Pestilence	21	655
Pharmacist	21	710
Pharmacy of the Ameri-Indians	21	710
Pill-making	21	712
Plague, history of	22	140
Plasters	9	348
Pneumonia bacillus isolated	15	284
Polygonatum	24	804
Proprietatis	21	710
Psychiatry and War	22	731
Psychoanalysis, history of	22	735
Quinine	15	282
Reception rooms	14	429
Sanitary arrangements	16	125
Sanguinaria	24	803
Scientific philosophy, principles of	14	346
Scriptural pharmacy	21	709
Seneca oil	9	345
Signatures, doctrine of	24	803
Smallpox	22	760
Solomon's seal	24	804
Specially constructed psychopathic hospital, First	14	432
Stone oil	9	345
Sugar-coated pills	9	348
Surgery	26	73
Civil War to present time	26	85
Colonial	26	79
history of	26	73
in America	26	79

History of Medicine — cont'd Vol. Page
Surgery, Revolutionary Period 26 81
Revolution to the Civil War..... 26 82
Tabasheer 26 196
Tabashir 26 196
Tablet triturates..... 9 348
Temperance, Jewish..... 16 125
Theriac 26 525
Theriaca 26 525
andromachi 21 711
Theriake 1 677
Tuberculosis 22 759
22 761
bacillus isolated.... 15 284
Typhoid bacillus isolated 15 284
Typhoid fever..... 18 575
22 759
22 760
Typhus fever..... 18 575
22 760
Ultra-violet rays in treating diseases..... 15 285
Valetudinaria 14 427
Vegetable dietary laws, Jewish 16 123
Water-dock 9 216
Zaraath 16 126

Medical Education

Animal experimentation. 1 698
First American medical school 26 81
American Physical Education Review..... 22 34
Doctors' riot..... 18 542
Educational requirements 8 696
Education, medical..... 18 538
in the United States, medical 18 541
Health education..... 14 28
Journalism, medical.... 18 545
Jurisprudence, medical. 18 547
Life lengthened by medical science..... 22 366
Medical colleges and schools 18 538
Medical schools, 13th century 26 559
Medical science and the World War..... 18 564
Pedagogy, medical 18 561
Physicians' essential requirements 14 346
Salerno, School of..... 24 182
Schola Salernitana..... 24 182
Textbooks in surgery, 13th century 26 559
Vivisection 22 48
28 157
Women in medicine.... 18 563
Women, medical education of..... 18 544
Women medical students 10 232

Medical Sects

Chiropractic 6 567
10 183
Diagnostic characteristics of the osteopathic school 21 29
Eclectics 18 540
Empiricism 10 302
Homœopaths 18 540
Homœopathy 14 342
Medical sects..... 18 540
Medicine, eclectic..... 18 568
Midwifery 18 540

Medical Sects — cont'd Vol. Page
Naprapathy 19 708
Nature, Homœopathic Law of..... 14 343
Osteopaths 18 540
Osteopathy 21 28
founder of..... 25 648
Perkinism 21 600
Physiomedicalists 18 540
Thomsonism 18 568

Medical Institutions

Academy of Medicine... 18 543
Albany Medical College. 18 543
American Academy of Medicine 1 541
American Medical Association 1 541
American Physical Educational Association... 22 34
Army, Ambulance Corps United States..... 18 551
Dental Corps, United States 18 550
Hospital Corps, United States..... 18 551
Medical Board, General, United States. 18 552
Medical Corps, United States 18 537
18 548
Medical Corps, United States, civilian personnel 18 552
Medical Corps, United States, co-operating agencies..... 18 552
Medical Museum.... 19 621
Nurse Corps, United States 18 551
School for Nursing. 18 531
United States medical organization.. 18 548
Bartholomew's Hospital. 3 292
Berkshire Medical Institution 18 542
Boston Psychopathic Hospital 14 432
Butler Asylum for the Insane 15 148
Castleton Medical School 18 542
Chicago Medical College 18 538
18 544
Cincinnati College..... 18 543
College of Physicians and Surgeons of the Western District of the State of New York 18 542
Columbian College..... 18 542
Crèche 8 171
Dexter Hospital..... 15 148
Epileptic Colonies..... 10 424
Examiners, medical 10 617
First Hospital in America 26 80
First institution for idiots 11 90
Geneva College..... 18 543
Greenwich Hospital.... 13 441
Gregory School of Medicine 18 544
Hampden Sydney College 18 543
Harvard Medical College 18 539
Harvard Medical School. 22 46
Health Department of New York 23 599
Henry Phipps Institute, The 14 108
Homœopathy, American Institute of..... 14 348

Medical Institutions — cont'd Vol. Page
Hospital Corps, United States army..... 14 432
United States navy.. 14 432
Hospital, field..... 14 426
military 14 431
ships 14 433
Hospital kitchen..... 14 430
Hospital, Psychopathic. 14 432
Hispitals, construction of 14 427
14 429
Hospitals, division of.. 18 556
Hôtel-Dieu 14 436
House of Divine Providence for Incurable Patients 23 512
Insane asylums..... 15 154
cottage system..... 15 154
Insane, institutional care of the..... 15 148
Invalides, Hôtel des.... 15 274
Jefferson College 18 542
Jefferson Medical College 18 542
Johns Hopkins Medical School 18 544
King's College..... 18 538
Lazaretto 17 159
London hospitals..... 17 626
Massachusetts Medical Society 18 473
Mayo Foundation for Medical Education.... 18 468
Medical advisory boards 24 538
Medical College of Georgia 18 543
Medical College of Ohio. 18 542
Medical College of Philadelphia 18 538
Medical College of South Carolina 18 542
Medical Department of Kings College 18 541
Medical Department of the Philadelphia College 18 541
Medical School of Maine 18 542
Medical School of the University of Vermont 18 542
Medical School of the Valley of Virginia.... 18 543
Medical School of Willoughby University... 18 543
Museum of the Royal College of Surgeons... 19 621
National Association of Dental Faculties..... 8 695
New York Medical College 18 544
Papal Medical School... 6 80
Pasteur Institute..... 21 373
Pennsylvania College... 18 543
Phipps Institute, Henry. 21 782
Phipps Psychiatric Clinic 14 432
Physicians, Royal College of, Edinburgh.... 22 35
Physicians, Royal College of, London..... 22 35
Private hospitals..... 14 427
Psychiatric Institute of the New York Commission on Insanity.. 14 432
Psychopathic Department of the Boston State Hospital..... 14 432
Public Hospital for Persons of Insane and Disordered Minds.... 15 148
Public hospitals 14 427

Medical Institutions — cont'd Vol. Page

Rockefeller Institute for Medical Research..... 23 599
Rome State Custodial Asylum 23 673
Royal Central Gymnastic Institute, The..... 22 32
Royal Schools of Veterinary Medicine..... 15 496
Sanatoria for Tuberculosis 22 761
Sanatorium 24 247
State Psychopathic Hospital, Michigan..... 14 432
Syracuse Medical School 18 539
Syracuse University.... 18 544
Thirteenth century hospitals 26 562
Transylvania University 18 542
United States Sanitary Commission 27 562
University Medical School, First..... 26 559
University of California 18 544
University of Louisiana. 18 543
University of Louisville. 18 543
University of Pennsylvania 18 538
University of the City of New York..... 18 543
University of Salerno... 10 281
University of Virginia.. 28 125
Ventilation 14 430
Vermont Academy of Medicine 18 542
Vermont Medical School. 18 543
Washington Medical College 18 543
Winchester Medical College 18 543
Woman's College of the New York Infirmary.. 18 544
Women's Medical College of Baltimore..... 18 544
Women's Medical College of Pennsylvania. 18 544

Medicine and the Law

Blood, guiac test for... 4 112
haemin test for..... 4 112
microscope test for. 4 112
serum test for..... 4 112
spectroscope test for 4 112
Blood stains..... 4 112
Medical education, legal supervision of.... 18 538
State supervision of. 18 540
Medical jurisprudence.. 16 257
18 547
Medical licensing..... 18 540
Medical supervision.... 18 540

Anatomy

Abdomen 1 29
Accelerator nerve..... 14 37
Acetabulum 21 489
Achilles tendon..... 1 89
Adam's apple..... 1 128
Adenoids 20 452
Adrenals 1 138
1 152
Adipose tissue..... 7 533
11 53
Alimentary canal..... 9 111
18 176
Alimentary tract..... 1 408
Amphigony 1 644
Amygdulæ 21 136
Analogue 1 606
Anastomosis 1 626

Anatomy — cont'd Vol. Page

Anatomy 1 627
6 79
comparative 1 629
of the skin..... 25 71
Anus 2 49
Aorta 2 51
14 38
Aponeurotic fibres..... 13 672
Aqueous humor..... 2 112
Areolar connective tissue 7 533
14 37
Arterial orifices..... 14 37
Arm 2 262
Astragalus 11 454
Association areas 2 424
Association fibres 2 424
Arrectores pilorum..... 25 72
Arteries 2 348
Atlas 2 506
Auditory nerve..... 2 536
Auricle 14 37
Auriculo - ventricular openings 14 37
Auriculo - ventricular bundle 14 37
Axon 2 683
Azygos uvulæ muscle... 21 136
Ball and socket joint... 14 199
Basisphenoid 14 26
Bartholin's glands..... 8 290
Beard 3 380
Biceps 8 679
Bladder 4 49
Blood 4 105
cells, red..... 4 105
white 4 105
Blood corpuscles..... 22 47
Blood, circulation of.... 4 106
Bone 4 212
Bones of the human body 21 27
Bones of the foot..... 21 28
Brachydactyly 4 381
Brain 4 396
of mammals..... 18 177
Breast 4 452
Bregma 4 462
Broca's convolution..... 2 56
Bronchi 4 577
Buccinator 4 654
Bursa 5 67
21 380
Cæcum 5 136
Canine teeth..... 10 684
Capillaries 5 554
14 37
Capsule 5 573
Cardia 5 599
Carotid 2 348
artery 5 649
Carpus 5 660
Cartilage 5 685
Caul 6 130
Cerebrospinal 6 224
Cerebellum 4 397
6 224
Cerebrum 4 397
Ceruminous glands..... 6 228
Chest 6 426
Chorda dorsalis..... 14 26
Chordæ tendinæ..... 14 38
Chordotonal organ 1 648
Chorioid 10 677
Choroid plexus..... 10 322
6 593
Chorion 10 282
Chromatin 6 631
Chromatophore 6 631
Cilia 6 676
Circulation 14 37

Anatomy — cont'd Vol. Page

Circulatory system..... 1 641
6 694
Circle of Willis..... 2 348
or collar-bone..... 7 64
Clavicle 21 27
Claws 7 65
Cloaca 7 118
Coccyx 21 27
21 489
Cochlea 7 184
Cochlear nerve..... 2 536
Collar bone..... 21 27
21 489
Colon 7 285
Columns of Burdach... 25 411
Columns of Gall 25 411
Column of Gowers..... 25 411
Commissure 7 405
Convolution of broca... 4 569
Condyle 7 484
Connective tissue..... 7 532
Coracoid 7 676
Cornea 7 707
10 677
Corium 25 71
Corpuscle 8 17
Corpuscles of Krause... 25 72
Corpuscles of Meisner.. 25 72
Cortex 8 27
Cowper's glands 8 138
Cranial nerves..... 8 158
Cuboid 11 454
Cuspidate teeth..... 10 684
Cuticle 8 340
25 71
Cutis 25 71
Cytoplasm 1 680
Darwinian tubercle..... 8 488
Decidua 10 282
Dense white fibrous tissue 7 533
Dentin 8 688
Dentine 8 688
Derma 25 71
Diaphragm 9 71
Digestive system..... 1 639
Digits 26 68
Dissection 9 169
Dorsum 11 454
Duct of Santorini..... 21 241
Duct of Wirsung..... 21 241
Ear 14 26
anatomy, physiology and disorders of 9 476
Eighth nerve..... 2 536
Elastic tissue..... 7 533
10 48
Endocardium 14 37
Endoskeleton 25 67
Endothelium 10 323
Endothelial cells..... 14 39
Eosinophiles 4 105
4 212
10 408
Epicardium 14 37
Epididymis 10 420
Epidermis 25 71
Epigastrium 10 420
Epiglottis 10 421
Epithelium 10 677
Erythrocytes 4 105
Ethmoid 14 26
Ethmoid bone..... 10 548
Excretory ducts..... 24 188
Excretory system..... 1 642
Extensors 13 672
Eye 10 676
14 26
Facial angle..... 10 697
Facial nerve..... 10 697
Fallopian tubes..... 10 734

Anatomy — cont'd	Vol.	Page
False ribs	23	481
Fascia	11	50
Fat tissue	11	53
Fauces	11	61
Fenestration	11	116
Femur	11	111
	21	28
Fields, Rube	19	379
Fibula	21	28
Fifth nerve	11	201
Fillet	11	210
Fissure of Rolando	4	397
Fissure of Sylvius	4	397
Flexors	13	672
Floating ribs	23	481
Foetus	11	411
Fontanel	11	427
Foot	11	454
Forelimb	25	68
Foramen ovale	10	283
Fourth nerve	11	561
Gall-bladder	9	114
	12	240
Ganglion	12	273
Ganglionic cells	14	37
Gastro-intestinal tract	1	403
Gelatinous connective tissue	7	583
Giant cells	12	636
Gills	12	656
Gland	12	680
Glands	9	111
Glomeruli	14	88
Glottis	12	720
Goethe's theory of the vertebrate head	14	26
Gonads	1	644
Goose flesh	25	72
Groin	13	484
Gullet	9	110
Hair	13	621
	18	174
Hairs	25	72
Hand	13	671
	21	27
Hard palate	21	135
Haversian canals	4	212
Haversian lamellæ	4	212
Head	14	26
Heart	18	177
anatomy and functions of	14	36
Heart-muscle	19	615
Helix	14	81
Hemiterata	19	378
Hermaphrodites	19	378
Heterotaxes	19	378
Hind limb	25	68
Hip	14	199
bone	21	27
joint	14	199
girdle	25	68
Histology, employment of photography on	22	7
Homology	1	630
Humerus	21	27
Hyoid apparatus	14	26
Hyoid bone	21	27
Hypoderm	25	71
Hypophysis	10	322
Ilia	21	489
Ilium	21	489
	25	68
Inferior vena cava	14	37
Inhibitory nerve	14	37
Integuments	18	174
Integumentary system	1	634
Intestine, large	9	111
small	9	111
Iris	10	677

Anatomy — cont'd	Vol.	Page
Ischium	21	489
Karyoplasm	1	631
Kidneys	18	176
Lacunæ	4	212
Leucocytes	4	105
Levatores palati	21	136
Long, short, flat and irregular bones	21	27
Lungs	18	176
Lunula	25	73
Lymphoid tissue	7	533
Lymphatic glands	13	501
Lymphocytes	4	105
Malpighian layer	13	621
Malpighian corpuscle	1	644
Mammary glands	18	179
Marrow	18	319
	21	26
Maxillary sinuses	20	452
Median dorsal axis	25	67
Mediastinum	22	247
Medulla oblongata	4	396
	18	590
	22	267
Meibomian glands	24	498
Membrane	18	612
Mesentery	18	685
Metanephridium	1	643
Metatarsus	11	454
Midriff	19	45
Monstrosity	19	378
Motor areas	19	514
Mouth	19	584
section through	9	111
Motor system	1	638
Mucous glands	21	135
Mucous membrane	19	546
Muscle-cells	19	615
Muscles	19	615
of the soft palate	21	186
Muscle	22	48
tissue	19	615
Muscularis mucosæ	25	674
Muscular structures in the skin	25	72
Myeloplaxes	4	212
Myocardium	14	37
Nail	19	682
	25	73
Nasopharynx	20	452
Navicular bone	11	454
Neck	20	36
Nervous system	1	645
Nerves of the skin	25	72
Neuralgia	20	101
Nourishment of bone	21	27
Nose	20	448
Oculomotor nerve	8	159
Œsophageal plexus	22	267
Oesophagus	9	110
Oid glands	25	72
Olfactory nerve	8	159
Omenta	21	597
Omphalositic monsters	19	378
Optic nerve	8	159
Organ	20	788
Organs, rudimentary	9	195
Os calcis	11	454
Ossein	21	23
Ossification	21	24
Osteology, human	21	26
Os innominatum	21	27
	21	489
Ovaries	1	644
	10	322
Ovary	21	57
Paccinian corpuscles	25	72
Pacinian bodies	21	90
Pacinian corpuscles	21	90
Palate	21	135

Anatomy — cont'd	Vol.	Page
Palato glossic muscles	21	136
Palato-pharyngei muscles	21	136
Pancreas	9	111
	10	322
	21	241
Panniculus adiposus	25	71
Parotid gland	24	188
Pars papillaris	25	71
Pars reticularis	25	71
Parathyroids	10	322
Parenchyma	21	297
Patella	21	28
	21	380
	25	68
Pavement epithelium	25	673
Pelvic girdle	21	490
Pelvis	21	489
Pericardium	14	36
	21	583
Perinaeum	21	586
Perineum	21	586
Peritoneum	21	597
Periosteum	4	212
	21	595
Peyer's glands	21	700
Peyer's patches	21	700
Phalanges	11	454
Pharynx	21	714
Pia mater	22	51
Pigment of the skin	25	72
Pineal	10	322
body	22	99
gland	1	649
organ	1	649
Pituitary gland	22	135
Pituitary body	22	135
Placenta	10	283
Plasma	4	105
Pleura	22	247
costalis	22	247
pulmonalis	22	247
Pneumogastric nerve	22	267
Polymorph neutrophiles	4	212
Polymorpho-nuclear neutrophiles	4	105
Presphenoid	14	26
Process	22	627
Prostate	10	323
gland	22	670
Protonephridium	1	643
Protoplasm	1	630
Pubes	21	489
Pubis	21	489
Pulmonary circulation	14	38
Pyloric mucosa	25	672
Pylorus	25	673
Radius	21	27
	23	139
Rectum	23	275
Red bone-marrow	18	319
Reproductive system	1	644
	18	177
Respiratory system	1	640
Retina	10	677
Reticular tissue	7	533
Ribs	21	27
Rib	23	481
Sacrum	21	27
	21	489
	24	98
os	24	98
Salivary glands	24	188
Sartorius	24	308
Scalp	24	349
Scaphoid	11	454
Scapula	21	27
Scarfskin	25	71
Sebaceous glands	24	498
	25	72
Sebum	25	72

Anatomy — cont'd	Vol.	Page
Sense organs	1	645
	1	647
	14	26
	18	177
Serous membrane	24	597
Sesamoid bone	21	380
Sesamoid bones	24	606
Shoulder-girdle	25	68
Shoulder-joint	24	756
Siamese twins	19	378
Sinus	25	42
Skeleton	1	638
	18	174
	25	67
Skull	21	27
	25	78
Soft palate	21	135
Spleen	25	426
Sphenoid	14	26
Spinal cord	25	410
Spinal skeleton	25	67
Spine	21	27
nerves	25	412
Sternum	21	27
Stomach	9	111
	9	114
	25	671
section of the	9	112
Stratum corneum	25	72
Stratum granulosum	25	71
Stratum germinativum	25	71
Stratum lucidum	25	71
Stratum mucosum	25	71
Striped muscle	19	615
Structure of the stomach	25	674
Structure, salivary glands	24	188
Sublingual gland	24	188
Submaxillary gland	24	188
Superior vena cava	14	37
Suprarenals	10	322
Sweat glands	25	72
Systems of control of the heart	14	37
Systemic circulation	14	38
Sympathetic paraganalia	10	322
Tarsus	11	454
Teeth	18	175
Tendon achilles	11	454
Tendons	13	672
Tensores palati	21	136
Testes	1	644
Testicles	10	322
Thymus	10	322
gland	6	480
Thyroid	10	321
Tibia	11	454
	21	28
Tonsils	21	136
Trabeculæ	14	26
Trachea	26	738
Trigeminus	11	201
Trophic nerves	25	72
True monsters	19	378
True ribs	23	481
Tunica adventitia	2	348
Tubular glands	24	520
Ulna	21	27
Uvula	21	135
Vaso-motor nerves	25	72
Veins	14	37
Ventricle	14	37
Vertebræ	14	26
Vertebrates	25	6
Vertebrate theory of the skull	14	26
Vestibular nerve	2	536
Visual organs	1	649
Vomer	14	26
Wharton's duct	24	188
Windpipe	26	738

Embryology	Vol.	Page
Blastocyst	10	282
Bone, development of	21	26
Embryology	1	629
human	10	282
Embryonic connective tissue	7	533
End brain	10	318
Endoderm, or Enoderm	10	323
Epencephalon	10	412
Epiblast	10	146
Heart-muscle	19	617
Intervening mucosa	7	81
Kinetogenesis	16	427
Latissimus dorsi	19	617
Muscular system	19	617
Muscular tissue, evolution of	19	618
Pressure (intra-uterine life)	7	81
Reticulum	19	617
Rudiments, supernumerary dental	7	81
Trophoblast	10	282
Wolffian duct	1	644
See also Biology.		

Physiology	Vol.	Page
Abductor	1	30
Absorption	9	109
of the stomach	25	673
Academic physiology	22	44
Accommodation	1	76
Achilles tendon	26	412
Active movements	22	45
Adaptation	1	129
	28	138
Adolescence	1	147
	13	502
Adrenals	1	152
After-images	1	228
	28	138
After-percept	1	228
After-sensation	1	228
Age	1	234
Alimentary canal, movements of the	22	49
Ambidexterity	1	472
Amphicreatine	17	326
Anabolism	1	631
Animal physiology	22	44
Appetite	2	83
Arterial blood	14	37
Arterial stuffing	22	50
Arterial tension	22	50
Assimilation	2	423
Auricular diastole	14	37
Auricular systole	14	37
Average weight of the male	13	501
Bile	3	701
	9	111
	9	114
	9	116
Biliary capillary	17	531
Binocular perception	28	139
Birth	4	10
and heredity	15	113
Blind spot	4	86
Blood	4	105
capillary circulation of the	17	231
circulation	4	106
mechanics of	4	107
plates	4	105
Blushing	4	133
Bowel	15	269
Breath	4	453
Capsule of glisson	17	531
Carbamide	27	591
Carbohydrate metabolism	5	587

Physiology — cont'd	Vol.	Page
Carboxyhemoglobin	14	89
Cardiac regulator, The	22	267
Catalyzers	9	114
Cerebration	6	224
Change of life	13	502
	18	636
Chewing	18	419
Chief motor nerve of the stomach	22	267
Cholochrome	6	587
Cholophæin	6	587
Choroid plexus	26	173
Chrusocreatinine	17	326
Chyle	6	665
Chymaze	25	672
Chyme	6	665
Chymosin	25	672
Circulation	22	48
of blood	5	500
	13	748
Circumvallate papillæ	26	685
Classification of smells	24	571
Climateric	10	282
Co-education at adolescence	1	149
Cœliac axis	17	531
Coitus	7	225
Colostrum	7	332
	19	102
Complexion	7	439
Conation	7	457
Conception	7	460
Continuum	22	45
Co-ordination	7	644
Cutaneous sensations	8	338
Cystic duct	17	531
Deglutition	8	597
first act of	9	112
second part of	9	112
Dental physiology	22	49
Dentition of any animal	26	322
Dentition, teething	15	114
Dependence of intestinal upon gastric digestion	25	672
Desire	7	225
Development of speech of infant	15	114
Development of special senses of infant	15	114
Diastase	26	733
Diastases	25	675
Diastole	9	73
Diastolic tension	22	50
Dicrotic wave	9	86
Digestion	9	109
	25	671
Digestive juices	9	113
Disorders of menstruation	18	636
Disuse	9	195
Duodenal secretin	25	673
Eleidin	25	71
End-organs	10	318
Enzymes	9	114
	10	406
Epicritic impulses	22	50
Epithelium	10	436
Equilibrium	10	461
Erection	7	226
Eustachian tube	10	585
Eye	28	136
Eyesight in the lower animals	10	683
Eyeteeth	10	684
Excito-motor action	10	619
Excretory functions of the skin	25	74
Fæces	10	707
Fatigue	22	49
Ferment action, beginning of	9	114

Physiology — cont'd	Vol.	Page
Fibrin	11	170
Fibrinogen	11	170
Food and chemical agents	13	498
Food, digestion of	9	113
Formative period	13	500
Function of the kidneys	14	38
Fungiform papillæ	26	685
Gall bladder	17	531
Gaping	29	617
Gastric juice	9	111
	9	115
	12	333
	25	674
functions of	9	115
nervous control of the secretions of	9	115
Gastric peristalsis	25	673
Gastric secretions, chemical mechanism of	9	115
Generation	12	378
Gestation	12	627
Glands	22	48
endocrinous	26	172
Globulin	11	170
Groups of sensations	24	565
Growth	13	498
and development of the human being	13	499
Gustatory nerves	26	685
Gut	15	269
Hæmoglobin	4	105
Hearing	24	569
	24	572
Height and other measurements of infants	15	113
Hemoglobin	14	38
	14	89
Hepatic artery	17	531
Hepatic globules	17	531
Hepatic plexus	17	531
Hepatic substance	17	531
Heredity	7	80
Hering theory	7	311
Hydrolytic enzymes	26	733
Hygrometric sense	24	569
Hypophysis	26	173
Infancy	15	112
Inosit	15	146
Insalivation	18	419
Instruction at adolescence	1	149
Intellectual factor in speech	25	380
Intestinal digestion	25	671
Intestinal juice	9	117
Intestinal peristalsis	22	47
Intestine	15	269
Irradiation	15	391
Jaws, anatomy of	15	760
Joint	16	188
Jugular vein	16	240
Karyokinesis	16	312
Katabolism	16	314
Keratohyalin	25	71
Kidney secretion	11	163
Kidneys	16	401
Labor	4	10
Lacteals	16	639
Lactic acid	16	640
Larynx	16	775
Leg	17	233
Leucin	17	326
Leucocyte	26	51
Ligament	17	414
Liver, biliary function	17	532
Ligamentum teres	17	531
Lipase	25	672
Liver	17	530
functions of	17	531
metabolic functions	17	532
Lobus sigelii	17	531
Lungs	17	740
Lymph	14	37
	17	775
Lymphatic glands	17	776
Mastication	18	429
Maturity	13	502
Medical physiology	22	44
Melanin	22	223
Membrane	18	612
Menopause	10	282
	18	636
Menstruation	10	282
	18	636
Mental changes at adolescence	1	148
Mental characteristics at adolescence	1	147
Mental development of infants	15	114
Metabolism	1	631
	18	694
Milk	19	102
human	19	102
	19	108
Molar movements	22	45
Molecular movements	22	45
Motor function of the stomach	25	673
Motor side of speech	25	379
Mouth breathing	15	500
Mucin	19	546
Mucus	19	546
Muscle	22	48
sensation	19	614
Muscular action	19	616
Muscular development of infants	15	114
Myosin	19	660
fibrin	19	660
Need for salt	24	198
Nerve of respiration	27	267
Nervous system	22	48
	22	49
Nervous system, evolution of	20	82
of infants	15	500
Neuro-musculo glandular system	22	49
Normal gastric digestion	25	671
Nuclein	20	481
Nucleoproteid	11	170
Nutrition	22	48
of the tissues	21	395
Old age	13	503
Optic chasma	28	136
Ordinary sistolic pressure-range	22	50
Organ	21	29
Organic sensations	24	567
	24	569
Orgasm	7	226
Ovulation	10	282
Oxyhemoglobin	14	89
Pancreas secretion	24	189
Pancreatic juice	9	116
	25	673
composition of	9	116
functions	9	116
Pancreatin	21	242
Parathyroids	26	173
Passive movements	22	45
Pawlow experimental stomach	9	115
Pepsin	25	87
	25	672
	26	733
Peptic digestion, stages of	9	115
Pericardial fluid	14	37
Period of infancy	13	499
Peristalsis	9	109
	9	114
	21	596
Peristaltic movements, kinds of	9	109
Permanent teeth	26	321
Perspiration	21	640
Physical and mental training	13	501
Physical stimuli of taste	24	571
Physiology	22	44
applications of	22	46
of swallowing	9	112
of the skin	25	73
recent advance in	22	49
relations of	22	46
Plasma	4	105
Poisoning, types of	26	729
Portal vein	17	531
Process of coagulation	21	396
Process of swallowing	21	136
Prothrombin	11	170
Pseudocreatine	17	326
Psychic secretion	25	671
Ptyalin	25	675
Puberty	13	502
	22	753
Pulse	22	798
in infancy	22	799
Qualities of sensations	24	569
Recoils	22	45
Reflex action	23	300
Rennin	25	672
Reproduction	22	49
Respiration	22	48
	23	416
artificial experiments	23	417
mechanics of	23	417
Retina	28	136
Rhythm	23	480
Right-handedness	23	520
Salivation	24	189
Secreting surface	24	519
Secretion	9	109
	24	519
	25	671
Secretions, true	24	519
Secretory	25	74
Senility	13	503
Sensation	24	565
functions	24	566
in the skin	25	73
qualities	24	566
stimuli	24	566
Sensations of color and brightness	28	137
organic	24	566
Senses	24	568
Sensory mechanism of speech	25	379
Sex hygiene at adolescence	1	148
Social tendencies at adolescence	1	148
Shoulder joint motions	24	757
Sighing	24	798
Sight	24	569
	24	572
Sinew	26	412
Sleep	25	95
Smell	24	569
	24	571
influences	24	572
Speech	25	379
Spigelian lobe	17	531
Stheneuphoric Index	22	49
Study of the pulse	22	799
Subjective sensations	24	566
Suprarenal capsules	26	52
Suprarenals	26	173

Physiology — cont'd	Vol.	Page
Sweat	21	640
	25	74
Sympathetic paraganglia	26	173
Syndromes, uniglandular	26	172
Synovial membrane	26	176
Systolic tension	22	50
Tactile sense	25	73
sensibility	24	571
Taste	24	569
	24	571
Teeth	26	320
forms	26	321
permanent	26	321
structure	26	320
temporary	26	321
Tendon	26	412
Testicle	26	453
Thirst	26	557
Thoracic duct	26	586
Thorax	26	586
Throat	26	596
Thrombin	11	170
Thymus	26	173
gland	26	604
Thyroid gland	26	604
Tongue	26	635
Touch	24	569
	24	571
Umbilical cord	27	267
Uniglandular syndromes	26	172
Urea	27	591
Ureter	27	592
Urethra	27	592
Uric acid	17	532
	27	593
Urinary organs	27	596
Urine	16	402
	27	596
Varieties of physiology	22	44
Vision	28	136
Vision among fishes	10	683
Vision of birds	10	683
Visual apparatus	28	136
Visual sensation	28	137
Vitalism	22	44
Voice, the human	28	164
Wanderlust at adolescence	1	148
Weaning	29	129
Weight and development of infants	15	113
Whisper	28	164
Xanthocreatinine	17	326
Yawning	29	617
Young-Helmholtz theory	7	311
Youth	13	502

Bacteriology and Parasitology

Bacteriology and Parasitology — cont'd	Vol.	Page
Acanthocephala	26	588
Acquired immunity	14	720
Actinomyces	14	396
	25	230
Action of smoke on bacteria	11	436
Active immunity	24	603
Agar-agar	1	230
Algæ	25	230
Amboceptors	1	473
Anaphylaxis	1	623
Animal parasites	21	397
Anthrax	18	578
Antiseptic	2	40
Antitoxic immunity	14	720
Antitoxic power	14	720
Anti-toxins	14	720
Antitoxins	4	105
	26	731
Ascaris lumbricoides	2	76
	23	722
Ascaris megalocephala	14	396
Asiatic lung fluke	27	38
Aspergillus	14	396
Autogenous vaccines	27	634
Azotobacter	25	230
Bacilli tetani	29	40
Bacillus amylovorus	11	233
Bacillus anthracis	2	19
	23	526
Bacillus botulinus	26	736
Bacillus coli communis	2	76
	27	240
Bacillus diphtheriæ	9	139
Bacillus lactimorbi	19	108
Bacillus lepræ	16	127
	17	310
Bacillus malles	20	454
Bacillus pestis	4	653
Bacillus tuberculosis	22	761
Bacillus typhi exanthematici	27	243
Bacillus typhosus	4	111
Bacteria	3	27
	8	401
	11	127
in milk	19	105
in vaccine	27	631
in water	29	46
of pus-production	15	119
toxins	24	602
Bacteriæmia	4	111
Bacterial fermentations	2	640
Bacterial infection	21	397
Bacterial life	25	229
Bacterial toxins	26	730
Bactericide	3	28
Bactericides	2	40
Bacteriology	3	29
	26	524
and photography	22	7
Bacteriological basis of preventive medicine	18	573
Bacteriolytic	3	31
immunity	14	720
power	14	720
Bacterium	3	31
Beef tapeworm	26	260
	26	261
Beggiatoa	3	444
Bengali isinglass	1	230
Bladder worm	26	261
	26	262
Blood fluke	9	186
Boophilus bovis	26	609
Bottom yeast	11	127
Brood tapeworm	26	263
Capsule	5	573
Chemical antiseptics	2	40
Chinese intestinal fluke	27	39
Cholera spirillum	16	504
Clonorchis sinensis	27	39
Coccus	7	181
Colon bacillus	7	286
Comma bacillus	29	39
Complement	7	431
Crenothrix	29	40
Cysticercus bovis	26	261
Cysticercus cellulosæ	26	262
Demodicidæ	26	610
Demodox folliculorum equi	14	396
Demordex folliculorum	26	610
Dermanyssus	14	396
Dibathriocephalus latus	26	262
	26	263
Diphtheria	21	397
antitoxins	26	732
bacillus preparation	26	731
toxin	26	733
Diplococcus	7	181
lanceolatus	4	111
Disease, germ theory of	9	160
Disease-producing protozoa	13	612
Distoma hepaticum	14	396
Distomum haematobium	4	110
Dwarf tapeworm	26	262
Echinococcus	9	542
polymorphus	26	262
Echinorhynchus	26	588
Ectozoa	21	291
Ehrlich's side-chain theory	14	720
Endoparasites	21	289
Entozoa	21	291
Eriophydidæ	26	610
Eustrongylus gigas	14	396
Exhaustion theory	14	720
Facultative anaërobic species	11	127
Facultative aërobic species	11	127
Fasciola hepatica	9	186
	27	38
Fasciolopsis buski	27	39
Filaria	11	205
hæmorrhagica	14	396
irritans	14	396
lota	11	205
medinensis	14	396
papillosa	14	396
reticulata	14	396
sanguinis equi	14	396
sanguinis hominis	4	110
	16	123
Five thousand immunity units	26	732
Fission fungi	11	127
Fluke	11	402
Flukes	27	38
Fungicides	2	40
Germicide	2	40
Germ theory of disease	29	47
Glossina	13	613
Gonnococci	14	39
Gonococcus	13	46
Gourd-worm	13	85
Grip	18	578
Guinea-worm	11	205
Hæmatopinus marcrocephalus	14	396
Hæmoflagellata	13	612
Hæmolysis	14	720
Hæmosporidia	22	223
Human blood fluke	27	39
Human liver fluke	27	39
Humoral theory	14	720
Hydatid cyst	17	534
Hydatids	9	542
Hydrophobia	18	577
Hymenolepis nana	26	262
Hyuris vermicularis	2	76
Immunity	14	720
Influence of salting upon bacteria	11	435
Influenza	18	578
bacillus	15	124
Intestinal parasites	15	271
Intestinal trichina	27	54
Itch-mites	26	609
Ixodes unipunctata	26	609
Leprosy	18	577
Linguatula denticulata	14	396
Loa	17	550
Lockjaw	18	578
Lumbricoid	17	735
Lung fluke	9	186
Malaria	18	577
Malarial parasites	22	224
Mange	26	609
Mechanical theory	14	720

Bacteriology and Parasitology — cont'd

	Vol.	Page
Medicinal fungi	12	173
Merozoites	22	223
Metagenesis	13	613
Miasm	19	8
Miasma	19	8
Microbe	19	82
Micrococci	7	181
Micrococcus	9	204
rheumaticus	11	39
	23	460
Microgamete	22	224
Microgametes	22	224
Micro-organisms	9	161
in water	29	46
Mixed vaccines	27	634
Molds	25	230
Muscle trichina	27	54
Mycorrhiza	25	230
Mytilotoxin	22	753
Nagana	13	612
Nasal bacteria	20	450
Necator Americanus	21	290
Nector Americanus	9	159
Nemathelminthes	23	722
Nematoda	23	722
Nematodes	17	735
Obligate aërobic	11	127
Obligate anaërobic	11	127
Œstrus hæmorrhoidalis	14	396
Œstrus pecorum	14	396
Œstrus nassalis	14	396
Œstrus equi	14	396
Opisthorchis felineus	27	38
Opsonin	20	717
Oxyurias vermicularis	23	722
Oxyuris curvala	14	396
Oxyuris mastigodes	14	396
Oxyurus vermicularis	22	104
Paragonimus ringeri	9	186
Paragonimus westermani	27	38
Parasitic diseases	14	396
Parasitic protozoa	22	695
Parasitism	21	289
Park tapeworm	26	262
Passive immunity	14	720
	24	603
Pasteurization	19	106
Pathogenic bacteria	15	572
Pathogenic fungi	12	173
Pathogenic infection	15	572
Phagocytosis theory	14	720
Pinworm	22	104
	23	722
Plasmodium	22	223
falciparum	22	224
malariæ	22	224
of malaria	4	110
vivax	22	224
Pneumococci	14	39
Pneumococcus type I	26	736
	26	737
Pneumonia	18	576
Preservation of milk	19	106
Protozoa	25	230
Psoroptes	26	609
communes V. equi	14	396
Ptomaines	22	753
Pyogenic bacteria	13	572
Pyogenic infection	13	572
Pyrosoma bigeminum	23	526
Retention theory	14	720
Ringworm	23	531
Roundworms	23	722
Saccharomycetes	11	127
Sapræmia	4	111
Sarcina	24	296
Sarcinæ	7	182
Sarcoptes scabei V. equi	14	396
Sarcoptes scabiei	24	345
Sarcoptidæ	26	609
Schistosoma	9	186
hæmatobium	27	39
japonicum	27	39
mansoni	27	39
Schizomycetes	11	127
	29	89
Sclerostoma equinum	14	396
Sclerostoma tetracanthum	14	396
Scolecida	24	424
Secondary cysts	17	534
Sexual organs in a tapeworm segment	26	261
Sheep liver fluke	27	38
Sheep scab	26	609
Source of vaccine supply	27	631
Spirillum cholperæ asiaticæ	29	39
Spirochætæ obermeieri	23	337
Spiroptera megastoma	14	396
Spiroptera microstoma	14	396
Sporoblasts	22	224
Sporozoites	22	224
Staphylococci	7	181
	14	39
Staphylococcus pyogenes aureus	4	111
Stock vaccines	27	634
Streptobacillus of ducrey	6	283
Streptococci	7	181
	14	39
Streptococcus	28	690
pyogenes aureus	4	111
Strepto-diplococcus	23	460
Strongylus arnfieldi	14	396
Symbiotes	26	609
communis V. equi	14	396
Tænia echinococcus	26	262
Tænia mamillana	14	396
Tænia perfoliata	14	396
Tænia plicata	14	396
Tænia saginata	26	261
Tænia solium	26	262
Tapeworm	26	260
Tenia echinococcus	17	534
Tetanotoxin	22	753
Tetanus	18	578
Tetanus antitoxin	26	735
toxin	26	735
oxidizing agents	26	735
Thornheaded worms	26	588
Threadworm	26	592
Thrush	26	597
Tics	26	610
Tinea circinata	23	531
Tinea favosa	23	531
Tinea sycosis	23	531
Tinea tonsurans	23	531
Top yeast	11	127
Toxin of diphtheria	26	731
Toxins	26	731
Trematoda	27	38
Trichiasis	27	54
coacta	27	54
lactea	27	54
Trichina	4	110
	27	54
Trichinella spiralis	27	54
Trichodectes pilosus	14	396
Trichodectes pubescens	14	396
Tricophyton	14	396
Trichophyton tonsurans	23	531
Trombidium americanum	14	396
Trypanosom	9	161
Trypanosoma gambiense	13	612
Trypanosoma equiperdum	9	283
Trypanosomatidæ	13	612
Trypanosomes	13	612
Tubercle bacillus	21	397
Tuberculosis	18	576
Typhoid bacillus	21	397
	27	240
Typhotoxin	22	753
Tyrotoxicon	22	753
Vaccination opposition	27	633
Vaccine	27	634
Yeast fungi	11	127
White plague	18	576
Woodtick	26	609
Zoo parasites	21	287

Pathology

	Vol.	Page
Adenoma	27	142
Adenomata	4	403
Adhesion	1	137
Albuminous degeneration	8	596
Aneurismal tumors	4	403
Angioma	27	143
Angiomata	4	403
Atrophy	2	519
	21	397
Autopsy	2	668
Benign tumors	27	142
Blebs	25	74
Carcinoma	27	141
Carcinomata	4	403
Caries	5	613
Carnified	22	248
Causes of tumors	27	140
Chemical injuries	21	397
Chloromata	4	403
Cholesteomata	4	403
Chondroma	27	142
Chordomata	4	403
Cicatrization	6	668
Cirrhosis	6	607
Concretion	7	475
Congenital malformations	21	398
Congestion	7	499
Crusts	25	75
Cysticercus	4	403
Cystomata	27	143
Cysts	8	374
Degeneration	8	595
Dermoids	4	403
Diagnosis of tumors	27	143
Diapedesis	9	70
Ecchymosis	9	522
Enchondromata	4	403
Endothelioma	27	142
Endotheliomata	4	403
Excoriations	25	74
Exostosis	10	641
Extravasation	10	675
Fatty degeneration	8	596
Fever	21	396
Fibroma	27	142
Fibromata	4	403
Fissures	25	75
Fluxion	11	405
General pathology	21	394
Glioma	27	142
Gliomata	4	403
Granulation tissue	13	139
Gumma	13	546
Gummata	4	399
Healing and regeneration	21	396
Host	14	434
Humor	14	494
Hyaline degeneration	8	595
Hyperæmia	15	122
Hypertrophy	14	604
	21	398
of the thyroid gland	11	90
Inflammation	15	22
	21	396
Inflammatory ulcers	27	262

Pathology — cont'd	Vol.	Page
Immunity	21	396
Intermediate tumors	27	142
Lesions	25	74
Lipoma	27	139
	27	142
Lipomata	4	403
Liver, pathological anatomy	17	532
Macules	25	7
Malignant tumors	27	141
Mechanical injuries	21	397
Microcephalus	19	32
Microscopy, clinical	19	37
Mucoid degeneration	8	596
Myoma	27	142
Myxoma	27	142
Necrosis	20	37
Neuroma	27	142
Œdema	21	396
Osteoma	27	142
Osteomata	4	403
Papules	25	74
Pathological anatomy	21	394
Pathological physiology	21	394
Pathology	14	342
	21	393
Phagocytosis	4	105
	21	703
Phlebolite	21	783
Pigmentary degeneration	8	596
Psammomata	4	403
Pus-globules	26	51
Pustules	25	74
Repair regeneration	21	396
Rigor mortis	8	540
	23	522
Sarcoma	27	141
Sarcomata	4	403
Scales	25	75
Scars	25	75
Sepsis	2	40
Spine, pathological changes in	25	413
Suppuration	26	51
Syphilomata	4	403
Teratology	26	440
Teratomata	4	403
	27	143
Thermotaxis	26	546
Thrombosis	26	596
Thrombus	21	396
	26	596
Treatment of tumors	27	143
True tumors	4	403
Tubercles	25	74
Tuberculomata	4	403
Tumors	21	398
	25	74
	27	139
of the thyroid glands	13	8
Ulcers	25	75
	27	262
Vesicles	25	74
Wheals	25	74
Xanthoma	27	142

Public Health, Sanitation and Hygiene

Public Health, Sanitation, etc.— cont'd	Vol.	Page
Adulteration of drinks	22	762
Adulteration of foods	22	762
Agents of disease	24	270
Anæmic children	14	30
Ante-mortem inspection	18	482
Anthropometry	22	33
Bad air	1	194
Bath	3	331
houses, public	3	334
Battle Creek Sanitarium	3	346
Breathing and health	4	453
Campaign against tuberculosis	27	126
Care of the body	14	592
Care of the feet	14	593
Causes of disease	24	269
Child hygiene	9	160
Classification of exercises	22	32
Compulsory health, education statutes	14	32
Delsarte system	22	33
Deodorant	2	40
Deodorizer	8	701
Dietetics	22	48
	22	49
Disease	24	269
Diseases, occupational	9	162
Disinfectants	2	40
	9	164
	9	165
Disinfection	9	166
Dispensary	9	167
Disposal of waste in cities	19	579
Division of field sanitation	18	573
Draft deflectors	15	88
Dress reform	9	330
Drug habit	9	343
	9	344
Drug trade	9	345
Endemic	10	318
Epidemics	22	759
Epidemiology	10	419
Eugenics	10	567
	12	253
Exercise, physical	10	637
Extermination of mosquitoes	19	507
Eyes, care of	15	89
Fatalities in the mining industries	19	150
Filter	11	211
Filtration	11	211
Flies as carriers of disease	11	353
Food laws	16	120
Formalin	11	490
Fountains, drinking	15	87
Fumigation	12	159
German gymnastics	22	31
Germicides	12	621
Germ theory	24	269
Gonorrhea as a social danger	13	49
Governmental inspection	9	347
Ground water supply	24	263
Gymnastics in Sweden	22	32
Health	24	269
examination	14	31
improvement, methods for	22	761
instruction	14	31
public, regulation of	14	27
Hot bath	3	332
Hygiene	14	590
military	14	592
Hygienic care of the teeth	26	323
Imported meats, inspection of	18	483
Industrial hygiene	15	87
Industrial physician	15	89
Inspection of products	18	483
Lacing	9	331
Lavatories	15	87
Lighting industries	15	90
Lockers	15	87
Meat food products, inspection of	18	483
Meat, inspection of	18	482
Medical inspection	14	29
	14	31
Mental diseases, prevention	22	565
Mikveh baths	3	336
Military sanitation	19	89
Mine accidents	19	149
Mountain streams	24	263
Municipal laboratories	22	762
National Board of Health	19	726
New York City	14	28
Non-fatal injuries in the metal mining industry	19	150
Nursery for the children, hygiene of the	20	505
Open-air schools	14	29
Oral hygiene	14	29
	14	30
Pasteurization	21	373
People's baths	3	336
Personal cleanliness	14	592
Personal hygiene	14	591
Pestilence	21	655
Physical training	14	29
	22	31
Physical training in the United States	22	32
Physical training of women in ancient Greece	22	31
Post-mortem inspection	18	483
Prevention in cases of chronic tuberculosis of the lungs	27	125
Prevention of disease	9	160
Preventive medicine	22	563
Principal coal-mine disasters	19	151
Prophylaxis	22	563
	27	241
Protection against pestilence, municipal	19	581
Public health	22	758
nursing	28	150
problem	22	762
Public hygiene	14	591
Public water supply	19	579
Pulley weight machines	22	33
Purification of water supplies	29	45
Raw-river water	24	263
Sanatoria	18	583
Sanitary engineering	24	262
Sanitary measures	18	581
Sanitary officers	18	572
Sanitary science	24	268
Sanitation and ventilation	15	85
Sanitation of farms	22	762
Saratoga Springs	24	294
Schools, instruction in sex hygiene in	24	396
Sea bathing	3	333
Solaria	22	18
State laboratories	22	762
Storage of water	24	264
Sunlight	22	18
Syphilis, social danger of	26	179
Teeth, care of	15	89
Thermæ	3	334
	26	525
Thermopolis springs	26	546
Toilets	15	87
Tubercular children	14	30
Tuberculosis, prevention of	22	564
Typhoid fever prevention	22	563
Venereal diseases	14	31
Ventilation	22	257

Public Health, Sanitation, etc.— cont'd	Vol.	Page
Ventilation, medical aspects of	28	7
of industries	15	90
Ventilators, Natural Draft	15	88
Vitalizing movements	22	33
Wastes, city, disposal of	29	5
Water bed	29	16
Water pollution	24	264
Water purification plants	24	264
Water supply and its purification	24	262

Materia Medica, Pharmacology and Therapeutics

	Vol.	Page
Ablution	14	588
Acetanilide	1	83
Acids	1	92
	1	93
	6	390
Aconitine	1	96
Adare	1	130
Adder's wort	4	23
Ægle	1	173
Ærotherapeutics	1	193
Æthiops martial	1	203
Æthiops mineral	1	203
Affusion	14	588
Airol	15	290
Alcohol	1	345
	8	622
	19	705
Alkalies	2	11
Alkaloids of opium	20	710
Aloes	1	434
Alterative	1	447
Alum-root	1	458
Amanita muscaria	6	587
American hellebore	22	203
American springs	19	162
Anæsthetics	1	604
Analgesics	1	606
Anamirta cocculus	22	70
Anaphoresis	10	214
Anaphrodisiacs	1	623
Anhidrotics	1	695
Animal alkaloids	1	697
Antacids	2	11
Anthelmintic	2	16
Antiemetic	2	27
Antiphlogistic	2	36
Antipyretics	2	37
Antipyrin	2	37
Antiseptic	2	40
Antisera, most important	24	603
Antispasmodic	2	41
Antitoxins	2	41
	26	732
cerebrospinal meningitis	26	736
diphtheria	26	732
value of	26	732
gas bacillus	26	737
Welch bacillus	26	737
Anti-typhoid vaccinations	24	603
Aphrodisiacs	2	57
Apocynum cannabinum	22	203
Apomorphine	19	472
Aralia hispida	24	307
Aralia nudicaulis	24	307
Argentina anserina	26	250
Argol	2	222
Aristol	15	290
Arnica	2	311
Aromatics	2	323
Arsenic	2	333
Arum triphyllum	22	203
Asafœtida	2	375
Asarum canadensis	22	202

Materia Medica, etc.— cont'd	Vol.	Page
Aspidium	22	203
Aspirin	2	408
Astringents	2	451
Atropine	2	519
Balsams	3	112
Basilicon	3	310
Bath, cold foot	14	588
electric	10	94
German light	22	20
hot-air	3	332
medicinal	26	144
mud	3	333
	19	547
peat	19	547
Sitz	3	333
Teplitz-mineral	26	440
tub	14	588
Turkish	3	331
	27	199
warm full	14	588
Batoum tree	22	119
Bebeerine	3	400
Beef essence	24	782
Beef juice	24	782
and cereal	24	782
Beet balls, scraped	24	782
Beef tea	24	782
frozen	24	782
peptonized	24	782
Belladonna	3	479
	14	347
	19	705
Benzoic acid	3	532
Berberine	3	536
Betelnut	21	217
Bethroot	22	203
Bismuth	4	20
Bitter almonds	4	25
Bittern	4	25
Bitters	4	26
Black cohosh	22	202
Black hellebore	14	83
Black Indian hemp	22	203
Blistering agents	28	42
Bloodroot	24	261
Blue cohosh	22	202
Bonnyclabber	24	783
Bonset	4	213
Boracic acid	4	262
Boric acid	4	262
Bouillon	24	782
Bread, dexterinized	24	784
pulled	24	784
torrefied	24	784
Bromal hydrate	4	575
Bromide of potassium	19	705
Bromipin	4	577
Bromol	4	577
Broom tops	4	597
Broth, chicken	24	783
clam	24	783
mutton	24	782
oyster	24	783
veal	24	782
Buchu	4	664
Cafeput	5	151
Caffeine	5	142
	19	705
Calomel	5	229
Camphor	5	284
	11	474
	19	705
Canada moonseed	22	203
Candle	24	781
Cannabis indica	6	664
Cantharadine	4	89
Cantharides	5	532
Capsicin	5	572
Capsicum	5	573
Capsule	5	573

Materia Medica, etc.— cont'd	Vol.	Page
Carbolic acid	5	588
Cardamon	5	598
Caribbee, Saint Lucia bark	5	610
Carminatives	5	630
Carrel-Dakin method	28	690
Carron oil	5	674
Cascara sagrada	5	696
Cassia	24	564
Cataphoresis	6	45
	10	214
Cataplasm	6	45
Catechu	6	48
Cathartic	6	56
	23	27
Caulophyllum thalictroides	22	202
Cedrela febrifuga	6	164
Cerate of cantharides	4	90
Cerates	6	222
Cereus grandiflorus	5	131
Cereus grandiforus	5	131
Cevadilla	24	76
Chalybeate waters	6	257
Chamælirium	22	203
Chelidonium majus	22	84
Chenopodium ambrosioides	6	412
Cherry, wild	6	418
Chicken panada	24	783
Chimaphila umbellata	22	583
Chloral hydrate	19	705
Choline	6	587
Chrysarobin	6	647
Churrus	6	664
Cimicifuga racemosa	22	202
Cinchona	23	95
	23	748
bark	5	128
	6	678
lucciduba	3	254
officinalis	3	254
Cinnamon oil	6	687
Cocoanut oil	7	191
Citric acid	6	710
Citronella oil	6	711
Clysters	7	141
Coal-tar products	6	390
	7	162
Cocaine	7	178
Cocum butter	7	191
Cocum oil	7	191
Cod liver oil	7	194
Coffee	7	210
Colchicum	7	235
Colic root	25	489
Collinsonia canadensis	22	203
Collodion	7	271
Collodium vesicans	28	42
Colocynth	7	274
Colocynthin	7	275
Columbo	7	339
Colutea arborescens	24	564
Comfrey	7	361
Commelina	7	364
Compresses	14	588
Conhydrin	7	519
Conia, or Coniine	7	519
Conium	7	521
Consomme	24	782
Convolvulin	7	616
Copaiba	7	645
Coptis trifolia	22	203
Coptis luteum	22	203
Corrosives	8	21
Corrosive sublimate	8	21
Cosmetics	8	32
Costus, or Costus arabicus	8	56
Cotoine	8	58

Materia Medica, etc.— cont'd	Vol.	Page
Counter-irritation	8	102
Court plaster	8	125
Creosote	8	180
Croton tiglium	8	243
Cubeb	8	288
Cuilawan bark	8	295
Culver's root	22	203
Cumin, oil of	8	300
Curari	8	305
Curcas	22	25
Cure	14	342
Custard, caramel	24	783
chocolate	24	783
egg	24	783
junket	24	783
Cyripedium hirsutum mill	22	203
D'Arsonval current	10	216
De Watteville currents	10	215
Damiana	8	430
Daturine	8	491
Decoction	8	566
Delamba (narcotic plant)	8	601
Delirifacient	8	622
Delphinine	25	539
Demulcents	8	674
Dessicants	9	16
Diaphoretics	9	70
Digitalin	9	117
Digitalis	9	118
purpurea	9	117
Diluents	9	122
Diphtheria antitoxin	9	159
Dioscoræ villosa	22	203
Direct sunlight in treatment of disease	22	19
Disease, seat of	14	343
treatment of, by diet	26	523
Diuretics	9	197
Douche, The	14	588
Dovers powders	21	381
Dracontium fœtidum	22	203
Drug	9	343
Drugs, the dual action of	14	343
Egg-nog	24	783
Egyptian porridge	24	784
Ehrlich 914	24	214
Ehrlich-Hata preparation	24	213
Electrotherapeutics	10	212
Elixirs	9	348
	10	244
Elm, slippery	10	259
Emetic	10	292
Emetine	10	292
Emmenagogues	10	296
Emodin	10	298
Emulsion	10	311
Enemata	10	324
Enteroclysis	10	399
Erechtites hieracifolia	22	84
Ergot	10	473
Escharotics	4	89
Eserine	10	498
Europhen	15	290
Excipient	10	619
Expectorant	10	642
Exposure to direct and entire sunlight	22	19
Extract	10	673
Febrifuge	11	76
Feeding, forced	11	94
Ficaria ficaria	22	84
Maryland figwort	22	84
Fire-weed	22	84
Flaxseed	11	339
Fluid extracts	9	348
Fly-blister	11	406
Fomentation	11	424

Materia Medica, etc.— cont'd	Vol.	Page
Food, Bartholow's	24	782
Foot powder	17	193
Formulary, national	11	493
Foxglove	9	117
Frangula	12	4
Frangulin	12	4
Friar's balsam	12	100
Fungus melitensis	8	366
Galangal	12	230
Galbanum	12	233
Galvanization, treatment of disease by	12	253
Galvano-faradic	10	215
Gambier	12	262
Gambir	12	262
Gamboge	12	262
Gavage	12	344
Gelsemium	12	362
Gentian	12	402
Ginger	12	658
Glauber's salt	25	223
Glycerine	12	731
Golden seal	22	202
Goldthread	22	203
Grape juice	24	780
Guarana	13	513
Guinea-corn	13	539
Gum-arabic	13	545
drink	24	781
Gum resins	13	546
Gums	13	546
Gum tragic	26	765
Gurjun balsam	13	575
Hæmatoxylin	13	612
Hamamelis	29	430
Hardenbergia	24	307
Hardback	13	698
Hashish	13	749
Helonias	22	203
Hemidesmus indicus	24	307
Henbane	14	93
	19	705
Heroin	14	141
Honey	14	352
Hookworm, remedy for	14	368
Hops	19	705
Hot-water bags	14	588
Hummans	3	331
Hydrastis canadensis	22	202
Hydrogen dioxide	4	74
Hydrogen peroxide	4	74
Hydroquinine	14	584
Hydrotherapy	14	587
Hypervanadic acid	27	676
Hypnotics	14	604
pure	14	604
Hypnotism	14	605
Hypodermic injection	14	607
Hypodermic medication	14	607
Hypodermoclysis	14	608
Hyoscyamus	19	705
Ichthyol	14	635
Indian hemp	19	705
Influence of daylight	22	18
Infusion	15	126
Inhalation	15	133
Ipecac	15	303
Iodine	6	510
Iodine and iodides in medicine	15	289
Iodoform	15	289
Iodoformin	15	290
Iodol	15	290
Iontophoresis	10	214
Ipomœa purga	15	598
Jaborandi	15	571
Jalap	15	598
Japanese pharmacy	21	710
Jatropha purgans	22	25
Jeffersonia diphylla	22	203

Materia Medica, etc.— cont'd	Vol.	Page
Jelly, bread	24	783
chicken	24	783
cider	24	783
lemon	24	783
orange	24	783
wine	24	783
Kamala	16	286
Kefir	16	335
Kephir	16	335
	16	374
Khat	16	390
Kino	16	450
Australian	16	450
Bengal	16	450
West Indian	16	450
Kneipp Cure	16	478
Koosoo	16	520
Kosin	16	520
Kumiss	24	781
Lactucarium	16	640
Lady's slipper	22	203
Lamp, Hopkins	22	20
mercury vapor	22	20
Lanolin	16	735
Lavage	17	114
Laxative	17	155
Lemonade	24	780
flaxseed	24	780
Irish moss	24	780
Lenna	5	710
Lentisk	22	119
Leptandra virginica	22	203
Lesser celandine	22	84
Light-ray cure	11	228
Light, therapeutics of	17	422
Lignum nephriticum	18	122
Liquorice	17	403
Loretin	15	290
Lotion	17	669
Lycopodium	17	771
Lysol	17	787
Male fern	22	203
Maragliano's therapy, principle of	24	603
Maryland figwort	22	84
Massage	18	413
Mastic tree	22	119
Materia medica	18	425
standard	14	346
May apple	22	203
Mechanotherapy	18	529
	26	524
Medicated wines	17	500
Medicinal fungi	12	173
Medicinal uses of sulphur dioxide	17	495
Medicine, lead in	17	173
relation of science to	14	293
sweats	3	331
Medicines, package	21	381
patent	21	380
proprietary	21	381
Menispermum canadense	22	203
	24	307
Menstrua	26	641
Mentha piperita	21	566
Menthol	18	652
Mercury, medical uses of	18	668
Mescal	8	622
Mesmerism	14	605
Metavanadate of soda	27	676
Methylene, bichloride of	18	729
blue	18	729
Mezereon	19	5
Mezereum	19	5
Milk, albuminized	24	781
cure	19	108
punch	24	781
pasteurized	24	781
peptonized	24	781

Materia Medica, etc.— cont'd	Vol.	Page
Milk, sago	24	781
sterilized	24	781
Miotics	19	216
Mixture	19	276
Morphine	19	472
Mortar	19	485
Morton wave current	10	216
Mucilage	19	546
Mush, Indian meal	24	783
rye meal	24	784
Mushes	24	784
Mustard oil	19	655
Myrrh	19	662
Narcotics	19	705
Neosalvarsan	18	581
	24	214
Nicotin, or Nicotine	20	331
Nitrate of silver	20	371
Novarsenobenzol	24	214
Noviform	15	290
Nutritive enemata	24	784
Nux vomica	20	524
Oatmeal gruel	24	781
with milk	24	781
Officinal plants	20	603
Oil, cajuput	5	151
bitter almond	3	530
castor	6	16
croton	8	244
Dippel's	9	141
fixed	11	305
gingili	12	659
jathrpha	22	25
salt	4	25
thyme	26	604
turpentine	27	206
wintergreen	11	472
wood oil	13	575
	29	486
Oleum animale dippelii	9	141
Opedeldoc	20	714
Opium	9	344
	14	347
	19	705
	20	710
Opopanax	20	714
Opotherapy	20	792
Orangeade	24	780
Orchis mascula	24	181
Organotherapy	20	792
Oudia resonator	10	217
Ox-gall	21	69
Oxygen	17	493
Oyster juice	24	783
Oyster soup	24	783
Ozone	17	494
uses of	17	494
Packs	14	588
Paniculata	22	70
Pap	24	781
Papain	21	255
Paregoric	21	297
Park No. 8	26	734
Pasteur's method of treatment of hydrophobia	24	603
Peppermint	21	566
Pepsin	9	348
	21	567
Peruvian bark	14	345
Pharmacotherapy	26	524
Pharmacopeia	21	708
Pharmacy	21	709
present	21	713
Phenacetin	21	720
Phototherapy	22	18
Physic-nut	22	25
Physicotherapy	26	524
Physostigmin	10	498
Phytolacca decandro	22	203

Materia Medica, etc.— cont'd	Vol.	Page
Picrotoxin	7	181
Pilewort	22	84
Pill	22	86
sugar-coated	9	348
Pilocarpus pennatifolius	15	571
Pinkroot	22	102
Piperazine	22	111
Pipsessewa	22	583
Pistachia terebinthus	6	435
Pistacia atalantica	22	119
lentiscus	22	119
oleosa	22	119
terebinthus	22	118
Plant, castor oil	6	16
Plants, medicinal	22	202
Plaster of cantharides	4	90
Plasters	9	348
	22	225
Plum porridge	24	781
Podophyllum peltatum	22	203
Pokeweed	22	203
Polygala senega	22	203
Porteranthus	12	655
	22	393
Potash	6	390
	22	439
Potassium in medicine	22	444
Potus imperialis	24	780
Powder, goa	12	739
Prescription	22	545
Preventive inoculation	2	20
Prince's pine	22	583
Pulu	22	800
Purgatives	23	27
Pustulants	4	89
Quillaia-bark	25	157
Quinia	23	94
Quinidine	23	94
	23	95
Quinina	23	94
Quinine	23	94
Quinine sulphate, average dose of	23	94
Qurari	8	305
Radium curative action on cancer	23	130
Radium, results in surgical work, efficiency of	23	129
methods of applying	23	129
therapy	23	129
Reflected sunlight	22	19
Retrovaccination	27	626
Rhubarb	23	478
Rochelle salt	23	589
Röntgen rays	29	593
Rosemary	23	696
Rubefacients	4	89
	23	747
Rue	23	754
Rutaceæ	15	571
Ruta graveolens antispasmodic	23	754
Sabadilla	24	76
Salep	24	181
Salts	24	207
Salvarsan	24	213
Sandwiches, raw beef	24	782
Sarsaparilla	24	306
Scammony	24	349
Schœnocaulon officinale	24	76
Scio turpentine	22	118
Scoparine	4	597
Scrophularia Marylandica	22	84
Seidlitz powder	15	282
	24	532
Seneca oil	9	345
	21	683

Materia Medica, etc.— cont'd	Vol.	Page
Seneca snakeroot	22	203
Senna	24	546
Sera, anti-pneumococcic	24	604
anti-streptococcic	24	604
antitoxic	24	603
used, kinds of	24	603
true bacteriolytic	24	604
Serum, curative blood	24	603
therapy	24	602
Seton	24	607
Shaya root	24	668
Sialogogue	24	762
Sinusoidal apparatus	10	215
Skunk cabbage	22	203
Smilax aspera	24	307
Snakeroot	22	202
Snake-weed	4	23
Soapbark	25	157
Soap-nut	25	158
Soap-root, hot	25	158
Solanum dulcamara	9	392
Solvents	26	641
Spanish flies	28	42
Sparteine	25	364
Spermædia clavus	12	173
Spigelia marilandica	22	102
Static electricity	10	215
Steeple-bush	13	698
Stimulants	25	651
Stone root	22	203
Stovaine	25	701
Stramonium	19	705
Strychnine	25	743
Styptic	25	759
Sudorifics	9	70
Sulphur, medical uses of	26	4
ointment	26	4
Sumbul	26	11
Suppository	26	51
Surface diseases treated by strong radium	23	130
Surgicotherapy	26	524
Swedish movement cure	26	125
Tablet, triturates	9	348
Tar	26	265
Taraxacin	26	266
Tea, Boneset	10	576
Tea, bran	24	781
Labrador	16	623
Tetanus antitoxin	26	735
value of	26	735
Tetanus, treatment of	26	455
Therapeutics	26	523
Therapeutic agents	26	523
Therapeutic method, changes in	18	578
Therapeutic agent, strongest	26	523
Thoroughwort	4	213
Thyroid therapy	8	187
Tincture	26	641
Tincture of cantharides	4	90
Toast	24	784
Tonics	26	686
bitter	26	686
general	26	686
hæmatic	26	686
medicinal	26	686
nerve	26	686
non-medicinal	26	686
vascular	26	686
Toxins	26	732
Tragacanth	26	765
gum	26	765
Treacle possett	24	781
Treatment, empirical method of	14	344
Trional	27	70
Troches	27	80
Turpentine tree	22	118
Twilight sleep	27	227

Materia Medica, etc.— cont'd Vol. Page

Twinleaf 22 203
Typha 27 240
Vaccination 9 159
14 720
16 15
17 775
27 624
27 632
arm-to-arm 27 626
Vaccine virus..... 27 626
Vaccinia 27 627
Vacuum tube application 14 178
Valerian 27 647
Vanadium 27 676
Vaseline 27 693
Veratrum viride..... 22 203
Vesicants 4 89
28 42
Vienna paste..... 28 82
Vioform 15 290
Violet rays..... 22 19
Vouacapoua araroba.... 6 647
Water, egg..... 24 780
macaroni 24 781
toast 24 781
mild thermal..... 19 163
mineral 19 161
muriated 19 163
oatmeal 24 781
rice 21 781
saline 19 161
sulphurous 19 163
Waters, acid..... 19 161
alkaline 19 162
barley 24 781
bitter 19 162
chalybeate 19 163
earthy 19 163
Wild turnip..... 22 203
Wild yam..... 22 203
Wine, mulled..... 24 781
whey 21 783
Witch-hazel 29 430
Xeroform 15 290
X-ray 23 120
29 598

See also **Chemistry and Chemicals.**

Toxicology

Acids, mineral, toxicology of..... 19 155
Amanitas 22 214
Athanasia 26 250
Cadaverine 22 753
Cherry-laurel water.... 17 108
Chettik 6 430
Cicuta 29 20
metallic 26 729
Cypripedium reginæ.... 22 213
Euphorbia 22 213
Gelsemium 12 862
Kalmia 22 214
Ladies' slippers..... 22 213
Laurel water..... 17 108
Laurels, mountain..... 22 214
Leucomaines 17 326
Mad apple..... 18 92
Muscarine 22 753
Plants having poisonous fruits 22 213
Plants, poisonous..... 22 213
toxic 22 213
Poison hemlock..... 22 214
Poison ivy..... 22 284
Poison oak 22 284
Poisons, metallic..... 26 729
Putrescine 22 753
Rhododendron 22 214

Toxicology — cont'd Vol. Page

Rhus toxicodendron.... 22 284
Salts, severe caustic metallic 26 729
Spurges 22 213
Strychnos tieute 6 430
Talavachi 26 220
Tanacetum vulgare..... 26 250
Tanghina venenata..... 2 63
Tansy 26 250
Toxicodendron 22 213
Toxicology 26 728
Toxins 26 732
Toad stools..... 22 214
Upasantiar 27 588
Verdigris 28 14
Virus 28 130
Water-hemlock 22 214
29 20
Wild parsnip..... 29 20

Surgery

Abdominal surgery..... 26 85
Abscess 1 51
Acephalocyst 1 83
Acupuncture 1 113
Acute appendicitis..... 2 77
Adenitis 1 136
Adenoids 1 136
Advance dressing station 18 560
Aid station..... 18 560
Anæsthesia 1 603
26 76
Anæsthetic 1 604
17 488
Analgesia 6 468
Anatomy of the Siamese twins 21 241
Ankylosis 1 714
Antiseptic surgery..... 15 284
Appendectomy..... 20 705
Appendicitis 2 75
treatment of..... 2 80
Artificial limbs 2 362
15 283
Asepsis 2 40
Aseptic surgery..... 17 508
Bandage 3 138
Bed-sore 3 411
Blood transfusion..... 4 113
Bloodletting 4 75
Boil 4 165
Bow legs..... 4 358
Bronchascopy 20 455
Bronchotomy 4 578
Bruise 4 630
Bunion 5 23
Cæsarean section..... 5 141
18 580
Callus 5 228
Cancer 5 490
cause of..... 5 492
of the breast..... 5 492
Cancer villages..... 5 491
Cancrum oris..... 5 498
Canthoplasty 5 583
Carbuncle 5 595
Carbuncles 22 20
Carcinoma 5 490
Castration 6 18
Cataract 6 45
Caustic 6 133
Cephalocele 6 217
Charcot's disease..... 16 188
Cheloid 16 345
Chest deformities..... 6 426
Chilblain 6 460
Childbirth, painless..... 6 468
Chiropody 6 567
22 270
Chloroform in surgery.. 15 283

Surgery — cont'd Vol. Page

Circumcision 6 694
Cleft palate..... 7 80
7 81
Club-foot 7 138
Concussion of the brain 7 476
Contract surgeons..... 7 599
18 552
Contusion 4 630
Contusions 7 601
Corn 7 607
Corn doctor..... 22 270
Cradle 8 148
Crepitus 11 570
Cure of cancer..... 5 493
Cyphosis 25 413
Diachylon (surgical adhesive plasters)..... 9 55
Diagnosis of appendicitis 2 79
Diagnosis of fractures.. 26 76
Dissection wounds..... 9 169
Dislocation 9 166
Diseases of the mammary glands (mastitis) 18 179
congenital 9 167
Dislocation, congenital.. 9 167
Dislocations, reduction by extension..... 9 166
treatment of..... 9 166
Division of special hospitals and physical reconstruction 18 556
Division of surgery of the head..... 18 556
Drainage tubes 9 300
Dry gangrene..... 22 270
Ectropium 9 231
9 570
Entropion, or Entropium of ear..... 10 404
5 491
Epulis 19 535
Eugomphosis 13 43
Ether as an anæsthetic.. 15 288
Ethmoidal cells, diseases of 20 452
Evacuation hospital.... 18 561
First aid..... 11 258
11 570
Fistula 11 297
Flat foot..... 11 334
Floating cartilages..... 16 189
Fracture 11 570
Frostbite 6 460
12 126
Furunculosis 4 165
Galvano-cautery 10 212
Gangrene 12 273
22 270
Gastrectomy 12 333
Gastrostomy 12 335
Gastrotomy 12 335
Gas gangrene..... 28 690
Genu valgum..... 4 358
Genu varum 4 358
Gomphosis 13 43
Green stick fractures.. 11 570
Gumboil 13 545
19 535
Gunshot wound..... 13 572
Gunshot wounds 19 90
Gynæcology 13 591
Hallux valgus..... 13 650
Harelip 13 707
Hemorrhoids 14 90
Heredity (cancer)..... 5 491
Hernia 14 134
Hip joint, disease of... 14 200
Hollow back..... 25 413
Housemaid's knee..... 21 380
Humpback 25 413
Hydrocele 14 559
Hypertrophy of prostate 26 174

Surgery — cont'd	Vol.	Page
Increase of cancer	5	491
Inflammation of the ovary	21	57
Ingrowing nail	19	682
Injuries of the trachea	26	739
Intestinal obstruction	15	270
Intubation	15	273
of the larynx	20	455
Intussusception	15	273
	28	183
Iodine War	18	564
Joints, wounds of	16	189
Keloid	16	345
Knock-knee	16	188
Laparotomy	16	741
Laryngoscopy	10	265
Laughing gas	17	486
	17	487
Ligature	17	415
Limbs, artificial	2	362
Lint	17	467
Lithotomy	17	517
Longing mark	19	679
Lordosis	25	413
Lymph-adenitis	1	136
Malignant tumors, nasal	20	451
Mastic gum	18	419
Mastiche	18	419
Maxillary sinuses	20	452
McBurney's point	2	75
	18	16
Military surgery	19	86
Morton current	19	492
Mother's mark	19	679
Nævus	19	679
Nail-biting	19	682
Necrosis of the jawbone	21	797
Nephrectomy	20	77
Nervous system, traumatic affections of the	20	84
Nitrous oxide gas as an anæsthetic	15	283
Nitrous oxid, oxygen analgesia	6	468
Noma	5	493
Occupation (cancer)	5	491
Occurrence of cancer	5	490
Œsophagotomy	20	595
Oöphoritis	21	57
Operating room	14	430
Operations, surgical	20	704
Orthopædics	21	12
Ovariotomy	21	57
Ovaritis	21	57
Painless extraction	17	488
Paracentesis	20	705
Partial fractures	11	570
Pes planus	11	334
Podiatry	22	270
Poison wounds	29	563
Polypus	22	335
Pott's disease	25	413
Race variations (cancer)	5	491
Ranula	19	535
Relationship between chronic irritation and cancer	5	492
Resection	23	409
Retropharyngeal abscess	20	454
Roentgenology, division of	18	558
Rubber dam	8	691
Rupture	23	777
Salivary calculus	19	535
Salivary fistula	19	535
Salpingotomy	25	629
Sarcoma of arm	5	490
Scoliosis	25	413
Scopolamin-morphine analgesia	6	469
Septic teeth	26	76
Sex variations (cancer)	5	491

Surgery — cont'd	Vol.	Page
Shell shock	19	90
Singers nodules	20	455
Skin-grafting	25	70
Spinal cord surgery	25	412
Sprain	25	450
Sprains	16	188
Sterilization	25	629
Stone	25	679
Stricture	25	734
Suppuration in the mouth	14	39
Surgery	6	79
	26	73
	26	74
division of	18	555
in America	26	79
Surgeon-General's office	18	553
Surgeon, United States army	18	552
	26	73
United States navy	26	73
Surgical Association, American	26	87
Surgical cleanliness	14	430
Suspension laryngoscopy	20	456
Suture	26	104
Tetanus	19	89
Tongue-tie	26	686
Torticollis	26	713
Transfusion, blood	27	4
Tracheotomy	20	456
	20	705
Treatment of appendicitis	2	80
Trephining	20	705
Truss	27	107
Tumors of the ovary	21	57
Urology, division of	18	555
Varicose veins	27	688
Vasectomy	25	629
Volvulus	28	183
Wen	29	190
White swelling	29	274
Wound	29	563
X-ray work	19	89
	26	76

Dentistry

Army Dental Corps, United States	18	550
Base-plate	8	692
Bridge work	8	692
Dental corps	18	550
Dentifrice	8	688
Dentistry	8	688
	18	541
in the United States	8	695
prosthetic	8	692
public	8	694
Gold inlay	8	692
Gum work, continuous	8	693
Licensing in dentistry	8	696
Plates, metallic	8	693
Rubber dental plate	15	284
Teeth	26	320
artificial	11	98
diseases of	26	322
hygienic care of	26	323

Instruments

Aspirator	2	408
Bougie	4	324
Catheter	6	63
Coxeter apparatus	17	488
Davidson syringe	11	94
Endoscope	10	323
Esmarch-tourniquet	26	721
Ergograph, The	10	473
Finsen light	11	228
Fissure needle	11	297
Galvanocautery	12	254
Laryngoscope	16	755
Mallet, electro-magnetic	8	691

Instruments — cont'd	Vol.	Page
Microscope	19	34
Ophthalmoneter	20	708
Ophthalmoscope	20	709
Phonendoscope	21	790
Pulmotor	22	798
Respirator	23	419
Speculum	25	379
	25	424
Sphygmograph	25	404
Sphygmo-manometre	4	111
Spirometer	4	455
Splint	25	426
Stethoscope	15	282
	25	633
Stomach pump	25	677
Tourniquet	26	721
Du Puytren's	26	721
Field	26	721
horseshoe	26	721
Petit's spiral	26	721
Trephine	27	48
Trocar	27	80
Urinometer	27	597

Nursing

American training school for nurses, First	24	408
Army Nurse Corps, United States	18	551
Nurses, registration of	18	541
Nurse, trained	20	502

Veterinary Science

Anæsthesia	28	52
Animals, diseases of	1	708
Anthrax	2	19
	14	393
	23	526
	28	48
Antisepsis	28	52
Antiseptics (for horse)	14	395
Aphthous fever	23	526
Army service	28	48
Army Veterinary Corps, United States	18	550
Asepsis	28	52
Auto-therapy (horse)	14	395
Azotemia	2	690
Azoturia	2	690
Blackleg	23	526
	28	48
Black-quarter	4	87
Boophilus bovis	23	526
Brack	4	422
Brasces	4	422
Braxet	4	422
Braxy	4	422
Breck	4	422
Broken-wind	4	575
	14	54
Bumblefoot	5	22
Bureau of Animal Industry	28	48
Cattle-tick	23	526
Chorea	9	230
Colostrum (horse)	14	390
Conception	28	49
Contagious abortion (horse)	14	393
Contagious pneumonia (horse)	14	393
Contagion through sexual congress	14	390
Dehorning	8	601
Disinfectants (for horse)	14	395
Distemper (horse)	9	172
	9	230
	14	393
Dogs, diseases of	9	230
Dourine	9	283
	27	117
Dumb rabies	14	582

Veterinary Science — cont'd

	Vol.	Page
Dystocia	28	50
Ectropium	9	231
Embryotomy	28	50
Emphysematous anthrax	14	393
Enzoötic	10	406
Equine influenza (horse)	14	393
Estrum	28	49
Farcy	11	18
Fardel-bound	11	18
Farrier	11	49
Feeding and digestive disorders (horse)	14	391
Feet, care of the (horse)	14	390
Fertilisation	28	49
Foal, care of the	14	390
Foot and mouth disease	23	526
	28	48
Foot-rot	11	455
Forced extraction	28	50
Founder	11	541
Furious rabies	14	582
Gestation	28	49
Glanders (horse)	14	393
Grass-staggers	25	471
Grooming (horse)	14	392
Growing foal, The	14	390
Grub in the head	24	676
Heaves	14	54
Hemoglobinemia	2	690
Hog-cholera	28	48
Hoof, daily washing of the (horse)	14	391
defective growth of (horse)	14	390
Horse, care and diseases of the	14	389
contagious diseases of	14	393
grease	27	62[illegible]
heels of the	14	392
pox	14	393
Hydrophobia	14	582
	14	583
Impregnation	28	49
Infectious ophthalmia (horse)	14	393
Infective arthritis (horse)	14	390
Infective diarrhœa (horse)	14	390
Infective hepatitis (horse)	14	390
Laminitis	11	541
Lampers, or Lampas	16	683
Laxatives (horse)	14	395
Liver diseases of horses	14	392
Loco disease	17	564
	25	471
Lung fever	23	526
Maladie du coit	9	283
Malignant œdema (horse)	14	393
Mange	9	231
	18	212
Metritis	28	50
Milk fever	28	50
Mouth disease	23	526
Mouth, thrush of the (horse)	14	393
Mutation	28	50
Multiple abscesses (horse)	14	390
Murrain	19	609
Nagaña	27	117
Navel infection (horse)	14	390
Need for salt	24	198
New-born foal (horse)	14	390
Overdistension of the stomach (horse)	14	392
Overgrown hoofs (horse)	14	390
Parturient paresis	28	50
Parturition	28	50
Pink-eye	22	101

Veterinary Science — cont'd

	Vol.	Page
Pleuro-pneumonia of cattle	22	248
	23	526
	28	48
Pneumonia (horse)	14	390
Poll-evil	22	318
Poultry diseases	22	469
Pregnancy	28	49
Pregnant mare, care of the	14	390
Quarantine (of horse)	14	395
Quarter-ill	23	526
Rabies (horse)	9	231
	14	393
Red water	23	285
Rinderpest	23	525
Ring-bone	23	527
Roaring	23	563
Rot	23	713
Roup	23	722
Sand-crack	24	251
Scab	24	345
Scrapie	25	434
Sheep-bot	24	676
Shipping fever (horse)	14	393
Shoeing horse	14	391
Southern fever	23	526
Spanish fever	23	526
Spavin	25	364
Splint	25	426
Spring-halt	25	452
Staggers	25	470
State regulations	28	48
Stomach-staggers	25	470
Strangles (horse)	14	393
	25	710
String-halt	25	452
Surgical cleanliness	28	52
Surgical dressing of wounds	28	53
Surgical procedure	28	51
Surra	26	90
Texas fever	23	526
	28	48
Toxins (in horse)	14	393
Tuberculosis	23	526
distribution among animals	27	120
(horse)	14	393
Veterinary corps	18	550
Veterinary medicine	28	47
Veterinary obstetrics	28	49
Veterinary surgery	28	50
White scour (horse)	14	390
Windgalls	29	379

Biographies

UNITED STATES

	Vol.	Page
Abbe, Truman	1	12
Abbott, Alexander Crever	1	16
Abrams, Albert	1	48
Adami, John George	1	118
Agnew, Cornelius Rea	1	238
Agnew, David Hayes	1	238
Amory, Robert	1	584
Anderson, John Fisher	1	659
Archer, John	2	167
Armstrong-Hopkins, Saleni	2	287
Ashford, Bailey Kelly	2	385
Atlee, Washington Lemuel	2	507
Bangs, Lemuel Bolton	3	145
Bard, John	3	243
Bard, Samuel	26	81
Barker, Lewellys Franklyn	3	256
Barnes, Joseph K	3	267
Bartlett, Elisha	3	293

Biographies — cont'd

	Vol.	Page
Bartlett, Josiah	3	294
Barton, Benjamin Smith	3	296
Bayley, Richard	3	365
Beaumont, William	3	392
	25	671
Bedford, Gunning S	3	414
Bemiss, Samuel Merrifield	3	498
Bigelow, Jacob	3	695
Billings, Frank	3	706
Biggs, Hermann Michael	3	607
Bishop, Louis Faugères	4	13
Bishop, Seth Scott	4	13
Blackburn, Luke Pryor	4	40
Blackwell, Elizabeth	4	48
Blackwell, Emily	4	48
Bloomer, Amelia	9	330
Bolton, Benjamin Meade	4	196
Bosworth, Francke Huntington	4	305
Bowditch, Henry Ingersoll	4	360
Boylston, Zabdiel	4	377
Brigham, Amariah	4	538
Brinton, John Hill	4	543
Brown, Samuel	4	611
Brown, Sanger	4	611
Brown-Séquard, Charles Edouard	4	613
Brush, Edward Nathaniel	4	639
Bryant, Joseph Decatur	4	648
Buchanan, Joseph Rodes	4	661
Bulkley, Lucius Duncan	5	7
Bull, Charles Stedman	5	7
Butler, William Morris	5	83
Carlson, Anton Julius	5	622
Carnochan, John Murray	5	643
Carrel, Dr. Alexis	23	598
Carroll, James	29	624
Carter, James Madison Gore	5	678
Chaillé, Stanford E	6	244
Chancellor, Charles W	6	277
Chassaignac, Charles	6	347
Church, Benjamin	6	652
Coan, Titus Munson	7	166
Cogswell, Mason Fitch	7	215
Cohen, Jacob da Silva Solis	7	216
Cohen, Solomon Solis	7	216
Coley, William Bradley	7	249
Coltman, Robert, Jr	7	332
Corning, James Leonard	7	714
Councilman, William Thomas	8	98
Craig, Charles Franklin	8	149
Crile, George W	8	192
Curtis, Edward	8	316
Cushing, Harvey (Williams)	8	334
Cutter, Ephraim	8	343
Cuyler, John	8	346
Da Costa, Jacob Mendes	8	389
Dall, William Healey	8	417
Dalton, John Call	8	422
Dana, Charles Loomis	8	443
De Rosset, Armand John	8	715
De Rosset, Moses John	8	715
Dewey, Richard (Smith)	9	48
Dewitt, Benjamin	9	49
Dickson, Samuel Henry	9	85
Donaldson, Henry Herbert	9	254
Doty, Alvah Hunt	9	272
Doughty, William Henry	9	277
Drake, Daniel	9	301
Draper, Henry	9	312
Draper, John Christopher	9	312
Draper, John William	9	312
Dugas, Louis Alexander	9	388

Biographies — cont'd	Vol.	Page
Dunglison, Richard James	9	404
Dunglison, Robley	9	404
Dyer, Isadore	9	451
Dwight, Jonathan	9	446
Earle, Pliny	9	486
Edes, Robert Thaxter	9	581
Edson, Cyrus	9	591
Eliot, Sir John	10	243
Elsberg, Louis	10	265
Emmet, Thomas Addis	6	81
	10	297
Erlanger, Joseph	10	479
Ernst, Harold Clarence	10	482
Eustis, William	10	586
Evans, Thomas William	10	593
Eve, Paul Fitzsimmons	10	594
Ewing, James	10	616
Ferris, Albert Warren	11	141
Fisher, George Jackson	11	280
Flexner, Simon	11	851
	23	599
Filck, Lawrence F	11	851
Flint, Austin	11	856
Flint, Joseph Marshall	11	857
Folsom, Charles Follen	11	423
Ford, William Webber	11	466
Foster, Isaac	11	528
Gage, Simon Henry	12	226
Gardiner, Sylvester	12	288
Gibbs, Robert Wilson	12	638
Gihon, Albert Leary	12	647
Glisan, Rodney	12	717
Goddard, Henry H	11	90
Godman, John D	12	747
Goler, George W	13	29
Gorgas, William C	21	236
Goss, Isham J. M	13	74
Gram, Hans B	14	348
Gray, John Purdue	13	165
Green, Charles Wilson	18	427
Greenleaf, Charles Ravenscroft	18	436
Greenman, Milton Jay	13	437
Gregory, Elisha Hall	13	457
Gross, Samuel D	13	487
Hamilton, Allan McLane	13	657
Hamlin, Augustus Choate	13	663
Hamilton, Frank Hastings	13	657
Hammond, William Alexander	13	665
Harlan, John	13	709
Hays, Isaac	14	22
Helmuth, William Tod	14	86
Hemmeter, John Cohnheim	14	88
Herrick, Charles J	15	391
Holbrook, John Edward	14	315
Howard, L. O	11	353
Howe, Andrew Jackson	14	455
Hudson, Erasmus Darwin	14	469
Humford, James Gregory	19	561
Hun, Henry	14	497
Jackson, George Thomas	15	579
Jackson, James	15	580
Jackson, Mercy Bisbee	15	580
Jacobi, Abraham	15	589
Jacobi, Mary Putnam	15	590
Jacques, Loeb	22	45
James, Bushrod Washington	15	603
Janeway, Edward Gamaliel	15	612
Jarvis, Edward	15	749
Jay, James	15	760
Jeffries, John	16	7
Jelliffe, Smith Ely	16	10
Johnston, George Ben	16	185
Jones, John	16	198
Jones, Walter	16	202
Judson, Adoniram Brown	16	237
Keeley, Leslie E	16	333
Keen, William Williams	16	333
Kellogg, John Harvey	16	342
Kelly, Howard Atwood	16	343
Keyes, Edward Laurence	16	387
King, Albert Freeman Africanus	16	428
King, John	16	431
Kinyoun, Joseph James	16	451
Kirkbride, Thomas Story	16	457
Kirtland, Jared Potter	16	460
Knapp, Hermann	16	476
Knopf, Siegmund Adolphus	16	490
Knower, Henry McElderry	16	492
Kremers, Edward	16	541
Lamb, Daniel Smith	16	670
Lambert, Daniel	16	672
Lazear, Jesse W	29	624
Lee, Frederick S	17	219
Lee, Hildegarde L	17	220
Lee, Thomas George	17	225
Lewis, Dio	17	333
Lincoln, David Francis	17	452
Lindsley, John Berrien	17	458
Loeb, Jacques	17	591
Loeb, Leo	17	591
Long, Crawford W	17	635
Loomis, Alfred Lebbeus	17	651
Lusk, Graham	17	751
Lusk, William Thompson	17	751
Luzenberg, Charles Aloysius	17	766
Lynn, Samuel H	17	779
McBurney, Charles	18	160
McCrae, Thomas	18	32
McDonald James	18	36
McDowell, Ephraim	18	41
	26	83
McGee, Anita Newcomb	18	47
McGuire, Hunter Holmes	18	50
McHenry, James	18	51
McKenzie, Robert Tait	18	69
McLane, James Woods	18	74
McMurtry, Lewis S	18	85
McQuillen, Jan Hugh	18	90
MacKenty, John Edmund	18	66
MacNevin, William James	18	86
Macphee, John Joseph	18	88
Mall, Franklin Paine	18	166
Mancrède, C(harles) B(eylard) Guerard de	19	687
Mann, Matthew Derbyshire	18	228
Manning, Robert	18	230
March, Alden	18	267
Marcy, Henry Orlando	18	276
Mark, Edward Laurens	18	298
Markoe, Thomas Masters	18	301
Martin, Henry Austin	18	337
Mason, Rufus Ogden	18	382
Matas, Rudolph	18	422
Mathews, Joseph McDowell	18	437
Matthews, Washington	18	444
Maynard, Edward	18	467
Mayo, Charles	23	590
Mayo, Charles Horace	18	468
Mayo, William	23	590
Mayo, William James	18	468
Mears, James Ewing	18	479
Meigs, Charles Delucena	18	596
Meltzer, Samuel James	18	610
Metcalfe, Samuel L	18	712
Meyer, Adolf	19	1
Miller, Edward	19	118
Miller, Henry	19	119
Mills, Thomas Wesley	19	129
Minot, Charles Sedgwick	19	211
Mitchell, Clifford	19	265
Mitchell, John Kearsley	19	267
Mitchell, Silas Weir	19	268
Moore, Edward Mott	19	429
Morgan, John	19	451
Morrow, Thomas Vaughan	19	482
Morton, Samuel George	19	491
Morton, William James	19	492
Morton, William Thomas Green	19	492
Mosher, Eliza Maria	19	501
Mott, Alexander Brown	19	518
Mott, Valentine	19	519
	26	83
Munde, Paul Fortunatus	19	564
Murphy, John B	6	81
Murphy, John Benjamin	19	609
Musgrave, William Everett	19	623
Mussey, Reuben Dimond	19	655
Newton, Robert Safford	20	291
North, Elisha	20	408
Noyes, Henry Drury	20	480
Nuttall, Thomas	20	523
Ochsner, Albert John	20	570
O'Dwyer, Joseph	20	587
Ohmann-Dumesnil, Amant Henry	20	624
Oppenheim, Nathan	20	716
Opie, Eugene Lindsay	20	709
O'Reilly, Robert Maitland	20	785
Osborne, Oliver Thomas	21	17
Oswald, Felix Leopold	21	38
Otis, Fessenden Nott	21	43
Otis, George Alexander	21	43
Otto, John Conrad	21	49
Packard, John Hooker	21	90
Paine, Martyn	21	105
Pancoast, Joseph	21	241
Pancoast, William Henry	21	241
Pardee, George Cooper	21	295
Park, Roswell	21	325
Parker, Peter	21	329
Parker, Willard	21	330
Parrish, Edward	21	343
Parsons, Usher	21	351
Parvin, Theophilus	21	360
Peebles, James Martin	21	467
Peixotto, Daniel Levy Maduro	21	475
Pepper, William	21	564
Perkins, Elisha	21	600
Peterson, Frederick	21	671
	25	646
Physick, Philip Syng	22	35
	26	83
Piffard, Henry Granger	22	78
Pitcher, Zina	22	121
Plotz, Harry	22	251
Polk, William Mecklenburg	22	318
Pomroy, Rebecca Rosignol	22	346
Pope, Charles A	22	360
Post, Alfred Charles	22	423
Post, Wright	22	423
Powell, William Byrd	22	476
Preston, Ann	22	559

Biographies — cont'd	Vol.	Page
Prewitt, Theodore Frelinghuysen	22	566
Prince, Morton	22	579
Prudden, Theophil Mitchell	22	711
Pulte, Joseph Hippolyt.	22	799
Quackenbos, John Duncan	23	51
Ramsey, David	23	205
Ravogli, Augustus	23	235
Ray, Isaac	23	238
Reed, Charles Alfred Lee	23	292
Reed, Walter	23	294
	29	624
Remington, Joseph Price	23	365
Richardson, Maurice Howe	23	494
Richardson, Tobias Gibson	23	496
Roberts, John Bingham.	23	569
Rockwell, Alphonso David	23	611
Rodman, William Lewis.	23	622
Roe, John Orlando	23	625
Rosenau, Milton Joseph.	23	697
Rush, Benjamin	23	799
	26	81
	26	82
Russ, John Denison	23	783
Russell, Harry Luman	23	785
Sachs, Bernard	24	87
Sajous, Charles Eucharistе de' Médicis	24	174
Salmon, Daniel Elmer	24	190
Sands, Henry Berton	24	257
Savidge, Eugene Coleman	24	328
Sayer, Lewis Albert	24	344
Schweinitz, Emil Alexander de	24	411
Schweinitz, George Edmund de	24	411
Scudder, John Milton	24	456
Seaman, Louis Livingston	24	486
Seguin, Edward Constant	24	531
Seguin, Edward Oresimus	24	531
Senn, Nicholas	24	564
Shattuck, Frederick Cheever	24	663
Shattuck, George Brune.	24	663
Shippen, Williams	24	729
Shrady, George Frederick	24	757
Shufeldt, Robert Wilson.	24	760
Sidis, Boris	24	786
Sims, James Marion	25	29
Solly, Samuel Edwin	25	242
Spitzka, Edward Charles.	25	425
Spivak, Charles D	25	426
Smith, Henry Hollingsworth	25	120
Smith, Julia Holmes	25	125
Smith, Nathan	25	126
Smith, Nathan Ryno	25	126
Smith, Theobald	25	128
Starr, Moses Allen	25	496
Sternberg, George Miller.	25	630
Still, Andrew Taylor	25	648
Stillé, Alfred	25	649
Stimson, Lewis Atterbury	25	651
Stockton, Charles G	25	662
Storer, David Humphreys	25	697
Tailfer, Patrick	26	216
Taylor, Charles Fayette.	26	297
Taylor, Henry Ling	26	298
Taylor, Issac Ebenezer.	26	299
Taylor, Robert William.	26	301
Thacher, James	26	481
Thayer, William Sydney.	26	491
Thomas, John	26	573
Thomas, Theodore Gaillard	26	574
Tolman, William Howe.	26	676
Toner, Joseph Meredith.	26	684
Trudeau, Edward Livingston	27	102
Tyson, James	27	248
Van Buren, William Holme	27	665
Vander Veer, Albert	27	680
Vaughan, George Tully.	27	700
Vaughan, Victor Clarence	27	701
Walsh, James Joseph	28	247
Warren, John	26	82
Warren, John Collins	26	83
	28	708
	28	709
Webster, Herbert Tracy.	29	150
Welch, William Henry.	29	176
Wells, Frederic Lyman.	29	185
Wells, Horace	17	488
	26	87
	29	186
Wheeler, Claude L	29	250
White, James William	29	267
White, Octavius Augustus	29	268
White, William Alanson.	29	269
Wight, Orlando William.	29	299
Wilbur, Ray Lyman	29	301
Wilder, Alexander	29	312
Wilder, Burt Green	29	312
Williamson, Hugh	29	347
Williston, Samuel Wendell	29	349
Wise, Peter Manuel	29	427
Wistar, Caspar	29	429
Witherspoon, John A	29	433
Wood, Francis Carter	29	472
Wood, George Bacon	29	472
Wood, Horatio Curtis	29	473
Woodruff, Charles Edward	29	497
Woodworth, Robert Sessions	29	500
Woolf, Albert Edward	29	506
Wyeth, John Allen	29	581
Wyman, Jefferies	29	581
Wyman, Walter	29	581
Yarrow, Harry Crecy	29	615
Yates, David Gilbert	29	616

BRITISH EMPIRE

Biographies — cont'd	Vol.	Page
Abernethy, John	1	39
Acland, Sir Henry Wentworth Dyke	1	94
Anderson, Elizabeth Garrett	1	658
Ashhurst, John	2	385
Aspinwall, William	2	408
Baly, William	3	124
Banks, Sir William Mitchell	3	151
Barry, Martin	3	286
Barwell, Richard	3	299
Bastian, Henry Charlton	3	321
Beale, Lionel Smith	3	376
Beddoes, Thomas	3	412
Beers, Clifford Whittingham	3	429
Berkenhout, John	3	558
Beland, Henri Sévérin	3	452
Bell, James	3	475
Biggar, Hamilton Fisk.	3	697
Bird, Golding	3	726
Birkett, Herbert Stanley	4	4
Blackmore, Sir Richard.	4	44
Bowman, Sir William	4	366
Bradbury, John Buckley	4	383
Bramwell, Byron	4	409
Bramwell, John Milne	4	409
Bright, Richard	4	540
Broadbent, Sir William Henry	4	568
Brodie, Sir Benjamin Collins	4	572
Browne, Sir Thomas	4	615
Bruce, Herbert Alexander	4	625
Bruce, Sir David	4	625
Buchner, Hans	4	664
Bucknill, Sir John Charles	4	669
Bull, George Joseph	5	7
Bulwer, John	5	19
Burdon-Sanderson, Sir John Scott	5	35
Caius, John	5	151
Campbell, Harry	5	278
Canniff, William	5	503
Carpenter, William Benjamin	5	654
Chadwick, James Read	6	243
Cheselden, William	6	423
Cheyne, George	6	434
Cheyne, Sir William Watson	6	434
Clark, Charles Kirk	7	40
Clark, Daniel	7	41
Clarke, Jacob Augustus Lockhart	7	47
Cobbold, Thomas Spencer	7	175
Collins, Sir William Job	7	269
Cooper, Sir Astley Paston	7	634
Comstock, John Lee	7	454
Dimsdale, Thomas	9	123
Dudley, Benjamin Winslow	26	84
Erichsen, Sir John Eric.	10	474
Ewart, William	10	615
Fergusson, Sir William.	11	125
Fitz, Reginald	2	75
Forster, John Cooper	11	495
Fraser, Sir Thomas Richard	12	22
Garrett-Anderson, Mrs. Elizabeth	12	297
Garrod, Sir Alfred Baring	12	299
Gaskell, Walter Holbrook	12	329
Good, John Mason	13	15
Gull, Sir William Withey.	13	543
Hall, Marshall	13	643
Hart, Ernest A	13	732
Harvey, William	1	629
	4	108
	13	748
Havers, Clopton	13	766
Hingston, Sir William	6	81
Houston, A. C	29	57
Hunter, John	14	514
Hunter, William	14	515
Jenner, Edward	16	15
	21	373
	25	107
	27	624
Jenner, Sir William	16	15
Jesty, Benjamin	27	625
Jex-Blake, Sophia	16	146
Joyce, Robert Dwyer	16	226
Langley, John Newport	16	720
Lankester, Edwin	16	733
Lawrence, Sir William	17	147
Linacre, Thomas	17	444
Lister, Joseph	17	503

Biographies — cont'd	Vol.	Page
Liveing, George Downing	17	530
McCrae, John David	18	31
Mackenzie, John Joseph	18	68
Mackenzie, Sir Morell	18	69
Macphail, Andrew	18	88
Maddox, Richard Leach	18	96
Maudsley, Henry	18	448
Mayo, John	18	470
Mayow, John	18	470
Miller, Florence Fenwick	19	118
Moorcroft, William	19	428
Morris, Sir Henry	19	476
Needham, John Turberville	20	39
Nelson, Wolfred	20	66
Newport, George	20	277
Ogston, Sir Alexander	20	608
O'Meara, Barry Edward	20	682
O'Reilly, Charles	20	784
Osler, Sir William	21	21
Owen, Sir Richard	21	64
Paget, Sir James	21	102
Pavy, Frederick William	17	532
Pereira, Jonathan	21	575
Pilgrim, Charles W	22	84
Playfair, William Smoult	22	243
Pott, Percival	22	451
Preyer, Wilhelm Thierry	22	566
Prichard, James Cowles	22	569
Quain, Jones	23	56
Quain, Sir Richard	23	56
Quain, Richard	23	56
Radcliffe, John	23	115
Ransome, Arthur	23	214
Reeve, Richard Andrews	23	297
Reid, Alexander Peter	23	329
Richardson, Sir Benjamin Ward	23	493
Roddick, Sir Thomas George	23	619
Rolph, John	23	639
Rosebrugh, Abner Mulholland	23	695
Ross, George	23	703
Ross, Ronald	23	704
Sawyer, Sir James	24	339
Sheard, Charles	24	670
Shepherd, Francis John	24	698
Shuckburgh, Richard	24	760
Shuttleworth, Edward Buckingham	24	762
Sloane, Sir Hans	25	98
Smith, Thomas Southwood	25	128
Starkey, Thomas Albert	25	495
Stewart, James	25	644
Stirling, John William	25	653
Stoker, Sir (William) Thornley	25	668
Stowe, Emily Howard	25	705
Sydenham, Thomas	26	176
Thompson, Sir Henry	26	578
Treves, Sir Frederick	27	50
Tryon, Thomas	27	117
Tuke, Daniel Hack	27	133
Turner, Sir William	27	205
Vaughan-Hughes, James	27	701
Wells, William Charles	29	187
Whiston, William	29	262
Wilson, Sir William James Erasmus	29	363
Winslow, Forbes Benignus	29	400
Wright, Adam Henry	29	568
Youatt, William	29	647
FRANCE		
Amussat, Jean Zuléma	1	596
Astruc, Jean	2	483
	21	550
Auzoux, Théodore Louis	2	670
Baillarger, Jules Gabriel	3	52
Barthez, Paul Joseph	3	290
Berard, Frédéric	3	535
Bernard, Claude	3	568
	17	532
Bichat, Marie François Xavier	3	679
Binet, Alfred	11	90
Blainville, Henri Marie Ducrotay de	4	53
Boivin, Marie Anne Victoire	4	176
Boyer, Alexis	4	374
Brierre de Boismont, Alexandre Jacques François	4	535
Broca, Pierre Paul	4	569
Broussais, François Joseph Victor	4	601
Cabanis, Pierre Jean George	5	115
Charcot, Jean Martin	6	304
Cruveilhier, Jean	8	264
Cuvier, Georges Chrétien Léopold Dagobert, Baron de	8	345
Daubenton, Louis Jean Marie	8	491
Delsarte, François	22	33
Desault, Pierre Joseph	8	718
Doyen, Eugène Louis	9	289
Dubois, Jacques	26	159
Dupuytren, Guillaume	9	415
Duvernoy, Georges Louis	9	444
Esquirol, Jean Etienne Dominique	10	507
Fauvel, Sulpice Antoine	11	69
Fleury, Maurice de	11	351
Flourens, Marie Jean Pierre	11	390
Guillotin, Joseph Ignace	13	538
Guy de Chauliac	6	79
Inaudi, Jacques	19	378
Jaccoud, François Sigismond	15	572
Jobert de Lamballe, Antoine Joseph	16	152
Laennec, René Théophile Hyacinthe	16	647
Landouzy, Louis Joseph Théophile	16	704
Larry, Dominique Jean, Baron	16	752
Laveran, Charles L. A.	17	119
Laveran, Charles Louis	17	119
Le Dentu, Jean François Auguste	17	164
Legrand Du Saulle, Henri	17	257
La Mettrie, Julien Offray	16	577
Magendie, François	18	114
Martin De Moussy, Jean Antoine Victor	18	339
Morey, Etienne Jules	18	277
Nélaton, Auguste	20	63
Noel, Nicholas	20	388
Paré, Ambroise	21	296
	26	75
Panas, Photinos	21	239
Pasteur, Louis	2	20
	3	30
	14	293
	14	583
	18	577
	18	580
	21	394
Péan, Jules Emile	21	451
Pinel, Philippe	22	100
Richer, Paul	23	498
Richet, Charles Robert	23	498
Ricord, Philippe	23	509
Roux, Pierre Paul Emil	23	728
Senac, Jean Baptiste	24	557
Simon, Th.	11	90
Sylvius, Jacobus	26	159
Toulouse, Edward	26	718
GERMANY		
Baginsky, Adolf	3	41
Behring, Emil Adolf	3	449
Bier, August	3	691
Billroth, Theodor	3	708
Binz, Karl	3	717
Bischoff, Theodor Ludwig Wilhelm	4	12
Blumenbach, Johann Friedrich	4	131
Bock, Karl Ernst	4	142
Carus, Karl Gustav	5	688
Cohnheim, Julius Friedrich	7	217
Coler, Alwin Gustav Edmund von	7	244
Czermak, John Nepomuk	8	383
Dogiel, A. S	15	391
Du Bois Reymond, Emil	9	373
Eberth, Karl Josef	9	520
Ehrlich, Heinrich	10	25
	21	394
Eichhorst, Hermann Ludwig	10	26
Erastus, Thomas	10	467
Erb, Wilhelm Heinrich	10	469
Esmarch, Johannes Friedrich August	10	500
Eulenburg, Albert	10	573
Eulenberg, Hermann	10	573
Fick, Adolf	11	174
Fischer, Bernhard	11	263
Flechsig, Paul Emil	11	341
Flemming, Walter	11	346
Floriep, Robert	11	380
Flückiger, Friedrich August	11	401
Flügge, Karl	11	402
Fraenkel, Karl	11	571
Frank, Johann Peter	12	4
Freud, Sigmund	22	733
Frey, Heinrich	12	98
Fritsch, Gustav Theodor	12	113
Fuchs, Ernst	12	141
Fürbringer, Max Karl	12	179
Gaffky, Georg Theodor August	12	225
Gall, Franz Joseph	12	239
Gegenbaur, Karl	12	357
Gudden, Bernhard von	13	522
Günther, Johann Heinrich Friedrich	13	574
Günther, Karl Wilhelm Adalbert	13	574
Günther Von Andernach	13	574
Gurlt, Ernest Friedrich	13	575
Gurlt, Ernst Julius	13	575
Hahnemann, Christian Friedrich Samuel	14	343
Hahnemann, Samuel Christian Friedrich	13	618
Helmholtz, Hermann Ludwig Ferdinand von	14	85
Hueppe, Ferdinand	4	474
Hufeland, Christoph Wilhelm	14	475
Jahn, Friedrich Ludwig	22	31
Koch, Robert	3	30
	16	504
	18	575
	18	576
	21	394
	22	761
	29	39
Kossel, Albrecht	16	531

Biographies — cont'd	Vol.	Page
Krafft-Ebing, Richard	16	536
Küchenmeister, Gottlieb Friedrich Heinrich	16	551
Kussmaul, Adolf	16	561
Landois, Leonard Christian Clemens	16	708
Langenbeck, Bernhard Rudolph Konrad	16	719
Langenbeck, Konrad Johann Martin	16	719
Lebert, Hermann	17	207
Lebert, Sigmund	17	207
Lehmann, Karl Bernhard	17	259
Lewis, Dr. Dio	22	32
Lewi, Dr. M. J	22	270
Liebig	21	394
Ling, Peter Henry	22	32
Loeffler, Friedrich	17	592
Mayer, Julius Robert	10	331
Mesmer, Friedrich (or Franz) Anton	18	686
Moos, Salomon	19	435
Müller, Johannes	6	81
	12	543
	19	5[illegible]7
Nagel, Albrecht Eduard	19	680
Niemeyer, Felix von	20	334
Nobbe, Friedrich	20	382
Noeggerath, Emil Jacob	20	388
Nussbaum, Johann Nepomuk	20	508
Oertel, Max Joseph	20	595
Oken, Lorenz	20	635
Okenfuss, Lorenz	20	635
Pfaff, Christian Heinrich	21	701
Pfeufer, Karl von	21	701
Priessnitz, Vincent	14	587
Romberg, Moritz Heinrich	23	657
Siebold, Karl Theodor Ernst von	24	789
Siebold, Philipp Franz von	24	789
Spiess, Adolph	22	32
Stahl, Georg Ernst	25	471
Van Helmont	1	629
Virchow, Rudolf	12	543
	28	109
Voit, Karl von	28	169
Volkmann, Alfred Wilhelm	28	174
Volkmann, Richard von	28	174
Wagner, Rudolf	28	211
Wassermann, August von	29	2
Weber, Ernst Heinrich	29	144
Wundt, Wilhelm (Max)	29	576
Zenker, Friedrich Albert von	29	699

ITALIAN

Biographies — cont'd	Vol.	Page
Abano, Pietro d'	1	7
Antommarchi, Carlo Francesco	2	45
Aselli, Gasparo	2	381
Bellini, Lorenzo	3	489
Berengario, Jacopo	3	540
Cæsalpinus, Andreas	5	138
Canani, Giovanni Battista	5	487
Cantani, Arnaldo	5	529
Colombo, Mateo Realdo	7	284
Cornaro, Ludovico	7	707
De Zarbis, Gabriel	29	703
Eustachio, Bartolommeo	10	585
Fabricius, Hieronymus	10	696
Fallopio, Gabriello	10	734
Fontana, Felice	11	426
Galvani, Luigi	12	253
Golgi, Camillo	13	38
Ingrassia, Giovanni Filippo	15	132
Leonicenus	11	195
Loreta, Pietro	17	661
Malpighi, Marcello	18	170
Mantegazza, Paolo	18	237
Morgagni, Giovanni Battista	19	449
Pacini, Filippo	21	90
Scarpa, Antonio	24	358
Spallanzani, Lazzaro	25	342
Zerbi, Gabriel	29	703

OTHER COUNTRIES

Biographies — cont'd	Vol.	Page
A B D Al Latif	1	27
Abu 'Ali al-Husain Ibn Abdallah Ibn Sina	2	678
Abu Merwan Mohammed Ben Abdalmalec Ben Zohar	2	674
Abercrombie, John	1	37
Ægineta, Paulus	1	172
Aesculapius	1	197
Aëtius	1	204
Albucasis	26	74
Andromachus	1	677
Amman, Johann Conrad	1	577
Antyllus	26	74
Arbuthnot, John	2	146
Aretæus	2	193
	26	74
Aristotle	1	628
Armstrong-Hopkins, Saleni	2	287
Asclepiades	1	628
Auenbrugger von Auenburg, Leopold	2	538
Avenzoar	2	674
	26	74
Avicenna	2	678
Baillie, Matthew	3	53
Bamberger, Heinrich	3	129
Bang, Bernhard Laurits Frederick	3	141
Bartholin, Thomas	3	290
Bell, Clark	3	474
Bell, John	3	476
Bell, Joseph	3	476
Bell, Sir Charles	3	473
Berry, Richard James Arthur	3	578
Boerhaave, Hermann	4	149
Brown, John	4	606
Buchan, William	4	656
Buchanan, George	4	659
Camper, Pieter	5	283
Celsus	1	628
	11	260
Christison, Sir Robert	6	622
Clark, Sir Andrew	7	40
Clark, Sir James	7	42
Combe, Andrew	7	349
Democedes	8	639
Dioscorides	11	261
Dioscorides, Pedanius	9	138
Engel, Joseph	10	335
Englisch, Joseph	10	359
Erasistratus	1	628
	10	466
	26	74
Exner, Siegmund	10	639
Father of medicine, The	14	200
Fayrer, Sir Joseph	11	73
Ferrier, Sir David	11	140
Finlay, Charles John	11	225
Finsen, Niels Ryberg	11	227
Freud, Sigmund	12	93
Gairdner, Sir William Tennant	12	229
Galen	1	628
	21	394
	26	74
Galen of Pergamum	24	512
Galen, or Claudius Galenus	12	234
Gregory, James	13	458
Gregory, John	13	458
Gullstrand, Allvar	13	545
Gussenbauer, Karl	13	576
Haller, Albrecht von	13	647
Hansen, Gerhard Henrik Armauer	13	685
Herophilus	1	628
Herrero y Rubira, Antonio Maria	14	144
Hippocrates	1	627
	7	26
	14	200
	21	394
	26	74
Ingenhousz, Jan	15	129
Kaempfer, Engelbert	15	659
Kaposi, Moritz	16	307
Klikowitsch	6	468
Kocher, Emil Theodor	16	505
Kölliker, Rudolph Albert	16	512
Lorenz, Adolf	17	661
Luke the Evangelist	11	261
Metchnichoff	21	394
Metchnikoff, Elie	18	712
Monro, Alexander	19	870
Moore, John	19	432
Noguchi, Hideyo	20	391
Onodi, Adolf	20	692
Oribasius	20	798
Paracelsus	14	344
Paul of Ægina	21	422
Praxagoras	1	627
Pattison, Dorothy Wyndlow	21	410
Paulus Ægineta	21	422
Pawlow, J. P	25	671
Pelagonius	21	481
Rhazes	23	455
	26	437
Rokitansky, Karl	23	633
Schenk, Leopold	24	368
Senefelder, Leopold	24	561
Serapion	24	578
Servetus, Michael	24	604
Servete, Miguel	24	604
Siebold, Philipp Franz von	15	659
Simmons, Duane	25	22
Simpson, Sir James Young	25	27
Skene, Alexander J. C	25	68
Soranus	25	262
Syme, James	26	164
Thurberg, Charles Peter	15	659
Vesalius, Andreas	28	41
Wood, Alexander	14	607
	29	471

Biographies — cont'd	Vol.	Page
Liveing, George Downing	17	530
McCrae, John David	18	31
Mackenzie, John Joseph	18	68
Mackenzie, Sir Morell	18	69
Macphail, Andrew	18	88
Maddox, Richard Leach	18	96
Maudsley, Henry	18	448
Mayo, John	18	470
Mayow, John	18	470
Miller, Florence Fenwick	19	118
Moorcroft, William	19	428
Morris, Sir Henry	19	476
Needham, John Turberville	20	39
Nelson, Wolfred	20	66
Newport, George	20	277
Ogston, Sir Alexander	20	608
O'Meara, Barry Edward	20	682
O'Reilly, Charles	20	784
Osler, Sir William	21	21
Owen, Sir Richard	21	64
Paget, Sir James	21	102
Pavy, Frederick William	17	532
Pereira, Jonathan	21	575
Pilgrim, Charles W	22	84
Playfair, William Smoult	22	243
Pott, Percival	22	451
Preyer, Wilhelm Thierry	22	566
Prichard, James Cowles	22	569
Quain, Jones	23	56
Quain, Sir Richard	23	56
Quain, Richard	23	56
Radcliffe, John	23	115
Ransome, Arthur	23	214
Reeve, Richard Andrews	23	297
Reid, Alexander Peter	23	329
Richardson, Sir Benjamin Ward	23	493
Roddick, Sir Thomas George	23	619
Rolph, John	23	639
Rosebrugh, Abner Mulholland	23	695
Ross, George	23	703
Ross, Ronald	23	704
Sawyer, Sir James	24	339
Sheard, Charles	24	670
Shepherd, Francis John	24	698
Shuckburgh, Richard	24	760
Shuttleworth, Edward Buckingham	24	762
Sloane, Sir Hans	25	98
Smith, Thomas Southwood	25	128
Starkey, Thomas Albert	25	495
Stewart, James	25	644
Stirling, John William	25	653
Stoker, Sir (William) Thornley	25	668
Stowe, Emily Howard	25	705
Sydenham, Thomas	26	176
Thompson, Sir Henry	26	578
Treves, Sir Frederick	27	50
Tryon, Thomas	27	117
Tuke, Daniel Hack	27	133
Turner, Sir William	27	205
Vaughan-Hughes, James	27	701
Wells, William Charles	29	187
Whiston, William	29	262
Wilson, Sir William James Erasmus	29	363
Winslow, Forbes Benignus	29	400
Wright, Adam Henry	29	568
Youatt, William	29	647
FRANCE		
Amussat, Jean Zuléma	1	596
Astruc, Jean	2	483
	21	550
Auzoux, Théodore Louis	2	670
Baillarger, Jules Gabriel	3	52
Barthez, Paul Joseph	3	290
Berard, Frédéric	3	535
Bernard, Claude	3	568
	17	532
Bichat, Marie François Xavier	3	679
Binet, Alfred	11	90
Blainville, Henri Marie Ducrotay de	4	53
Boivin, Marie Anne Victoire	4	176
Boyer, Alexis	4	374
Brierre de Boismont, Alexandre Jacques François	4	535
Broca, Pierre Paul	4	569
Broussais, François Joseph Victor	4	601
Cabanis, Pierre Jean George	5	115
Charcot, Jean Martin	6	304
Cruveilhier, Jean	8	264
Cuvier, Georges Chrétien Léopold Dagobert, Baron de	8	345
Daubenton, Louis Jean Marie	8	491
Delsarte, François	22	33
Desault, Pierre Joseph	8	718
Doyen, Eugène Louis	9	289
Dubois, Jacques	26	159
Dupuytren, Guillaume	9	415
Duvernoy, Georges Louis	9	444
Esquirol, Jean Etienne Dominique	10	507
Fauvel, Sulpice Antoine	11	69
Fleury, Maurice de	11	351
Flourens, Marie Jean Pierre	11	390
Guillotin, Joseph Ignace	13	538
Guy de Chauliac	6	79
Inaudi, Jacques	19	378
Jaccoud, François Sigismond	15	572
Jobert de Lamballe, Antoine Joseph	16	152
Laennec, René Théophile Hyacinthe	16	647
Landouzy, Louis Joseph Théophile	16	704
Larry, Dominique Jean, Baron	16	752
Laveran, Charles L. A.	17	119
Laveran, Charles Louis	17	119
Le Dentu, Jean François Auguste	17	164
Legrand Du Saulle, Henri	17	257
La Mettrie, Julien Offray	16	577
Magendie, François	18	114
Martin De Moussy, Jean Antoine Victor	18	339
Morey, Etienne Jules	18	277
Nélaton, Auguste	20	63
Noel, Nicholas	20	388
Paré, Ambroise	21	296
	26	75
Panas, Photinos	21	239
Pasteur, Louis	2	20
	3	30
	14	293
	14	583
	18	577
	18	580
	21	394
Péan, Jules Emile	21	451
Pinel, Philippe	22	100
Richer, Paul	23	498
Richet, Charles Robert	23	498
Ricord, Philippe	23	509
Roux, Pierre Paul Emil	23	728
Senac, Jean Baptiste	24	557
Simon, Th.	11	90
Sylvius, Jacobus	26	159
Toulouse, Edward	26	718
GERMANY		
Baginsky, Adolf	3	41
Behring, Emil Adolf	3	449
Bier, August	3	691
Billroth, Theodor	3	708
Binz, Karl	3	717
Bischoff, Theodor Ludwig Wilhelm	4	12
Blumenbach, Johann Friedrich	4	131
Bock, Karl Ernst	4	142
Carus, Karl Gustav	5	688
Cohnheim, Julius Friedrich	7	217
Coler, Alwin Gustav Edmund von	7	244
Czermak, John Nepomuk	8	383
Dogiel, A. S.	15	391
Du Bois Reymond, Emil	9	373
Eberth, Karl Josef	9	520
Ehrlich, Heinrich	10	25
	21	394
Eichhorst, Hermann Ludwig	10	26
Erastus, Thomas	10	467
Erb, Wilhelm Heinrich	10	469
Esmarch, Johannes Friedrich August	10	500
Eulenburg, Albert	10	573
Eulenberg, Hermann	10	573
Fick, Adolf	11	174
Fischer, Bernhard	11	263
Flechsig, Paul Emil	11	341
Flemming, Walter	11	346
Floriep, Robert	11	380
Flückiger, Friedrich August	11	401
Flügge, Karl	11	402
Fraenkel, Karl	11	571
Frank, Johann Peter	12	4
Freud, Sigmund	22	733
Frey, Heinrich	12	98
Fritsch, Gustav Theodor	12	113
Fuchs, Ernst	12	141
Fürbringer, Max Karl	12	179
Gaffky, Georg Theodor August	12	225
Gall, Franz Joseph	12	239
Gegenbaur, Karl	12	357
Gudden, Bernhard von	13	522
Günther, Johann Heinrich Friedrich	13	574
Günther, Karl Wilhelm Adalbert	13	574
Günther Von Andernach	13	574
Gurlt, Ernest Friedrich	13	575
Gurlt, Ernst Julius	13	575
Hahnemann, Christian Friedrich Samuel	14	343
Hahnemann, Samuel Christian Friedrich	13	618
Helmholtz, Hermann Ludwig Ferdinand von	14	85
Hueppe, Ferdinand	4	474
Hufeland, Christoph Wilhelm	14	475
Jahn, Friedrich Ludwig	22	31
Koch, Robert	3	30
	16	504
	18	575
	18	576
	21	394
	22	761
	29	39
Kossel, Albrecht	16	531

Biographies — cont'd	Vol.	Page
Krafft-Ebing, Richard..	16	536
Küchenmeister, Gottlieb Friedrich Heinrich....	16	551
Kussmaul, Adolf.....	16	561
Landois, Leonard Christian Clemens.....	16	703
Langenbeck, Bernhard Rudolph Konrad.....	16	719
Langenbeck, Konrad Johann Martin.....	16	719
Lebert, Hermann.....	17	207
Lebert, Sigmund.....	17	207
Lehmann, Karl Bernhard	17	259
Lewis, Dr. Dio.....	22	32
Lewi, Dr. M. J.....	22	270
Liebig	21	394
Ling, Peter Henry.....	22	32
Loeffler, Friedrich.....	17	592
Mayer, Julius Robert...	10	331
Mesmer, Friedrich (or Franz) Anton.....	18	686
Moos, Salomon.....	19	435
Müller, Johannes.....	6	81
	12	543
	19	5[illegible]7
Nagel, Albrecht Eduard.	19	680
Niemeyer, Felix von....	20	334
Nobbe, Friedrich.....	20	382
Noeggerath, Emil Jacob	20	388
Nussbaum, Johann Nepomuk	20	508
Oertel, Max Joseph.....	20	595
Oken, Lorenz.....	20	635
Okenfuss, Lorenz.....	20	635
Pfaff, Christian Heinrich	21	701
Pfeufer, Karl von.....	21	701
Priessnitz, Vincent.....	14	587
Romberg, Moritz Heinrich	23	657
Siebold, Karl Theodor Ernst von.....	24	789
Siebold, Philipp Franz von	24	789
Spiess, Adolph.....	22	32
Stahl, Georg Ernst.....	25	471
Van Helmont.....	1	629
Virchow, Rudolf.....	12	543
	28	109
Voit, Karl von.....	28	169
Volkmann, Alfred Wilhelm	28	174
Volkmann, Richard von.	28	174
Wagner, Rudolf.....	28	211
Wassermann, August von	29	2
Weber, Ernst Heinrich..	29	144
Wundt, Wilhelm (Max)	29	576
Zenker, Friedrich Albert von	29	699

ITALIAN

Biographies — cont'd	Vol.	Page
Abano, Pietro d'.....	1	7
Antommarchi, Carlo Francesco	2	45
Aselli, Gasparo.....	2	381
Bellini, Lorenzo.....	3	489
Berengario, Jacopo.....	3	540
Cæsalpinus, Andreas....	5	138
Canani, Giovanni Battista	5	487
Cantani, Arnaldo.....	5	529
Colombo, Mateo Realdo.	7	284
Cornaro, Ludovico.....	7	707
De Zarbis, Gabriel.....	29	703
Eustachio, Bartolommeo.	10	585
Fabricius, Hieronymus..	10	696
Fallopio, Gabriello.....	10	734
Fontana, Felice.....	11	426
Galvani, Luigi.....	12	253
Golgi, Camillo.....	13	38
Ingrassia, Giovanni Filippo	15	132
Leonicenus	11	195
Loreta, Pietro.....	17	661
Malpighi, Marcello.....	18	170
Mantegazza, Paolo.....	18	237
Morgagni, Giovanni Battista	19	449
Pacini, Filippo.....	21	90
Scarpa, Antonio.....	24	358
Spallanzani, Lazzaro....	25	342
Zerbi, Gabriel.....	29	703

OTHER COUNTRIES

Biographies — cont'd	Vol.	Page
ABD Al Latif.....	1	27
Abu 'Ali al-Husain Ibn Abdallah Ibn Sina.....	2	678
Abu Merwan Mohammed Ben Abdalmalec Ben Zohar	2	674
Abercrombie, John.....	1	87
Ægineta, Paulus.....	1	172
Aesculapius	1	197
Aëtius	1	204
Albucasis	26	74
Andromachus	1	677
Amman, Johann Conrad.	1	577
Antyllus	26	74
Arbuthnot, John.....	2	146
Aretæus	2	193
	26	74
Aristotle	1	628
Armstrong-Hopkins, Saleni	2	287
Asclepiades	1	628
Auenbrugger von Auenburg, Leopold.....	2	538
Avenzoar	2	674
	26	74
Avicenna	2	678
Baillie, Matthew.....	3	53
Bamberger, Heinrich....	3	129
Bang, Bernhard Laurits Frederick	3	141
Bartholin, Thomas.....	3	290
Bell, Clark.....	3	474
Bell, John.....	3	476
Bell, Joseph.....	3	476
Bell, Sir Charles.....	3	473
Berry, Richard James Arthur	3	578
Boerhaave, Hermann....	4	149
Brown, John.....	4	606
Buchan, William.....	4	656
Buchanan, George.....	4	659
Camper, Pieter.....	5	283
Celsus	1	628
	11	260
Christison, Sir Robert..	6	622
Clark, Sir Andrew.....	7	40
Clark, Sir James.....	7	42
Combe, Andrew.....	7	349
Democedes	8	639
Dioscordies	11	261
Dioscorides, Pedanius...	9	138
Engel, Joseph.....	10	335
Englisch, Joseph.....	10	359
Erasistratus	1	628
	10	466
	26	74
Exner, Siegmund.....	10	639
Father of medicine, The	14	200
Fayrer, Sir Joseph.....	11	73
Ferrier, Sir David.....	11	140
Finlay, Charles John....	11	225
Finsen, Niels Ryberg...	11	227
Freud, Sigmund.....	12	93
Gairdner, Sir William Tennant	12	229
Galen	1	628
	21	394
	26	74
Galen of Pergamum.....	24	512
Galen, or Claudius Galenus	12	234
Gregory, James.....	13	458
Gregory, John.....	13	458
Gullstrand, Allvar.....	13	545
Gussenbauer, Karl.....	13	576
Haller, Albrecht von....	13	647
Hansen, Gerhard Henrik Armauer.....	13	685
Herophilus	1	628
Herrero y Rubira, Antonio Maria.....	14	144
Hippocrates	1	627
	7	26
	14	200
	21	394
	26	74
Ingenhousz, Jan.....	15	129
Kaempfer, Engelbert....	15	659
Kaposi, Moritz.....	16	307
Klikowitsch	6	468
Kocher, Emil Theodor..	16	505
Kölliker, Rudolph Albert	16	512
Lorenz, Adolf.....	17	661
Luke the Evangelist.....	11	261
Metchnichoff	21	394
Metchnikoff, Elie.....	18	712
Monro, Alexander.....	19	370
Moore, John.....	19	432
Noguchi, Hideyo.....	20	391
Onodi, Adolf.....	20	692
Oribasius	20	793
Paracelsus	14	344
Paul of Ægina.....	21	422
Praxagoras	1	627
Pattison, Dorothy Wyndlow	21	410
Paulus Ægineta.....	21	422
Pawlow, J. P.....	25	671
Pelagonius	21	481
Rhazes	23	455
	26	437
Rokitansky, Karl.....	23	633
Schenk, Leopold.....	24	368
Senefelder, Leopold.....	24	561
Serapion	24	578
Servetus, Michael.....	24	604
Servete, Miguel.....	24	604
Siebold, Philipp Franz von	15	659
Simmons, Duane.....	25	22
Simpson, Sir James Young	25	27
Skene, Alexander J. C...	25	68
Soranus	25	262
Syme, James.....	26	164
Thurberg, Charles Peter	15	659
Vesalius, Andreas.....	28	41
Wood, Alexander.....	14	607
	29	471

METALLURGY

General	Vol.	Page
Acid process	25	565
Acid steel	25	562
Acid stock	25	582
Alloy, metallic	1	426
Alloys	1	425
	25	562
copper	7	651
pyrophoric	1	427
table of gold in	13	9
tool metal	25	613
Alumino-thermics	1	454
Aluminum	1	426
	1	455
	10	186
	18	704
brass	1	427
process of making	15	285
process of reducing	15	285
zinc	1	427
Amalgam	1	461
treatment of	13	19
Amalgamation	13	18
process	1	426
American bloomery	15	363
American furnace	25	578
Ammonium molybdate	19	332
Annealing	1	717
	15	98
	25	563
Anti-friction alloys	1	427
Antifriction metals	2	31
Antimony	2	34
	18	704
Armor plate, process of annealing	15	285
Arrastra process	13	18
Arsenic	25	592
Artificial blast	15	363
Assaying	2	413
Augustin process	25	13
Australian placers	13	10
Babbitt metal	3	4
	15	283
Basanite	26	718
Basic bessemer	25	573
Basic process	25	565
Benedicks	25	593
Bertrand-Thiel process	25	580
Beryllium	12	725
Bessemer converter	25	564
Bessemer malleable	5	716
Bessemer process	25	563
Bessemer process, Clapp-Griffiths	25	565
Bessemer process, development of the	25	566
Billon	3	707
Bismuth	4	19
	18	704
Black-head malleable process	5	715
Blast furnace	4	64
	15	363
	25	571
	25	811
Blast furnaces, modern American	15	364
Block tin	4	98

General — cont'd	Vol.	Page
Bloom	4	115
Boron	25	595
Brass	4	417
soldering	4	444
Brazing	4	444
Britannia metal	4	553
Bronze	1	426
	4	582
and brass work	4	583
boron	1	426
naval manganese	4	583
phosphor	21	793
plastic	4	582
steel	4	586
tobin	4	583
turbandium	4	583
white manganese	4	583
Cadmium	5	134
Calcination	5	158
Calcium	5	159
Calgoorlie	13	10
Californian placers	13	10
Calx	5	241
Carbide slag	25	569
Carbon	15	368
	25	562
annealing	15	368
carbide	15	368
combined	15	368
free	15	368
graphitic	15	368
hardening	15	368
in cast iron	15	368
Carbon steel, microstructure of low	15	384
microstructure of medium high	15	385
Carborundum	5	595
	10	190
process for making	15	285
Case-hardening	5	698
Casting	6	7
Cast iron	15	361
	25	571
finery method	15	366
gray, microstructure of	15	387
malleable	5	714
manganese in	15	370
microstructure of	15	387
open-hearth process	5	717
phosphorus in	15	369
refining of	15	366
sulphur in	15	370
Cast steel	5	719
	25	562
Cementite	15	385
	25	599
Chemical treatment	13	19
Chloride of cobalt	7	173
Chlorination processes	13	19
Chromax bronze	4	583
Chromium	6	632
	25	592
Cinder	4	68
Cobalt	7	173
	18	704
	25	595
Cobalt-blue, or Thenard's blue	7	173

General — cont'd	Vol.	Page
Cobaltite	7	173
Coinage alloys	1	427
Coke furnaces	25	578
Coke malleable	5	716
Colby process	25	569
Columbium	7	338
Concentrates, treatment of	25	811
Concentration	13	18
Converter	25	564
Converting	25	811
Coolgardie	13	10
Copper	7	651
	18	704
	25	592
and brass industry	7	660
Devil's	20	321
discovery and development	7	655
Crucibles	25	577
clay	25	577
graphite	25	577
Cupellation	2	413
Cyanide process	13	19
Cyanide treatment	13	18
Damascus iron	8	427
Damascus twist	8	427
De re metallica	13	15
Dies, making of	18	54
Dorr classifier	13	18
Dry puddling process	15	367
Duriron	9	426
Dutch metal	13	8
Electric furnace	25	570
Electric welding	10	147
	15	285
Thomson process of	10	148
Electrometallurgy	10	199
Electro-plating	15	282
Elmore process	13	18
Erbium	10	469
Eutectic alloy	15	386
Faur, Faber du	15	364
Ferric compounds	15	362
Ferrite	15	383
	25	599
Ferrous compounds	15	362
Fixing	11	305
Flotation	13	18
Flux	11	405
Foil	11	413
Forging, drop	18	54
machine	18	53
Founding	11	541
Fractional crystallization	11	569
Fracture	15	388
Frue vanners	13	18
Fuels	18	70
See also **Fuels and Illuminants.**		
Furnace, Blauofen	15	364
Catalan	6	37
	15	363
Girod	25	570
Greaves-Etchells	25	570
operation	25	582
Osmund	15	364
regenerative gas	25	578
reverberatory	23	445

General — cont'd	Vol.	Page
Rochling - Rodenhauser	25	570
Stückofen	15	364
construction of	25	580
Edgar Thompson	25	573
for crucible steel	25	577
induction	25	567
metallurgical	18	701
refining	25	567
reverberatory smelting	25	811
Fusible metal, or fusible alloy	12	202
Galena	17	171
German silver	11	159
	12	501
Glucinum	12	725
Gold	13	8
	18	704
Abyssinian	13	8
accurate assays of	13	10
and silver, cyanide process of obtaining	15	285
assay of	13	10
beating	13	11
bullion	13	19
coinage	13	13
Derby	13	9
Mannheim	13	8
mining and metallurgy	13	14
ores, treatment of	13	17
origin	13	10
production	13	23
standard	13	23
structure of pure	15	383
world distribution of	13	10
lode	5	440
Golden fleece	13	15
Goldschmidt process	13	32
Goldsmithing	13	24
Hardening	25	563
Hartz jigs	13	18
Heroult process	25	568
Heroult steel furnace	25	568
Heusler alloys	1	427
Humid assay process	7	219
Hydraulic classifiers	13	18
Hydrogen	17	484
Ingot	15	182
	25	578
Ingots, grading of	25	478
Internal combustion blowing engines	15	364
Invar	14	42
	15	274
	20	322
Iridium	15	324
	22	232
Iodyrite	15	290
Iron	15	361
	18	704
	22	190
	25	562
alpha	25	598
and steel, metallography of	15	382
beta	25	598
cast, malleable	5	714
charcoal	5	716
chemically pure	15	361
chilled	6	511
founding, chemistry of	15	368
galvanized	12	254
gamma	25	598
ingot	25	562
malleable	15	361
	25	564

General — cont'd	Vol.	Page
manufacture of	15	362
melted	15	362
microstructure of pure	15	383
ores, titaniferous	26	646
puddling	15	281
pure	15	383
	25	575
soft	15	361
structure of carbonless	15	383
substitution of coke for coal in melting	15	281
Swedish	25	577
Jamesonite	15	609
Jones metal mixer	25	566
Kelly's air-boiling process	16	344
Kjellin	25	569
process	25	567
	25	569
tilting furnace	25	569
Larmes bataviques	22	583
Latten	17	98
Lead	17	171
	18	704
compounds of	17	172
Leadhillite	17	174
Lead oxides	17	172
Limonites	15	379
Little silver	22	229
Lixiviation	17	545
Loam molding	11	541
Lump ore, treatment of	25	811
Lydian stone	13	10
	26	718
Machines, upsetting and forging	18	55
Malleable castings	5	716
air furnace for	5	715
annealing oven for	5	717
	5	718
Malleable casting, production of	5	719
industry	5	715
Malleability	18	167
Manganese	15	370
	25	562
	25	592
Martensite	18	333
Mercury	18	669
	18	704
Metallographical studies	15	380
Metallurgical apparatus	18	701
Metallurgical mills	24	47
Metallurgy	18	699
dry	18	701
wet	18	702
Metal, perfect	22	229
Metals	18	703
Metals, electrical resistance of	23	413
microstructure of pure	15	382
properties of	18	699
welding and cutting of	17	493
Metal work	18	696
Metal-working machinery	18	696
Metal-working tools	26	696
Molding	11	541
Molybdenum	18	704
	19	332
	25	592
metallic	19	332
steels	25	595
Monell process	25	579
Mooding process	8	340
Mother lode	13	10

General — cont'd	Vol.	Page
Muntz metal	4	418
Nickel	18	704
	20	321
	25	592
glance	20	322
steel	15	285
	20	322
	25	595
Nome	13	10
Oils, hydrogenation of	17	484
Open hearth process	25	574
Oreide	21	8
Ores	18	701
treatment of	18	701
	19	178
Oroide	21	8
Osmium	21	22
	22	232
and iridium, combination of	22	232
Otago district	13	10
Oxy-hydrogen cutting	17	484
Palladium	22	232
Parkes process	25	13
Patina	15	108
Patio process	13	18
	25	13
Pattinson process	11	569
Pearlite	15	384
Pewter	21	699
Phosphorus	15	369
	25	592
Physics	18	669
Pig iron	25	562
Pig and scrap method	25	574
Pig boiling puddling process	15	367
Pinchbeck	22	93
Plated bar	25	562
Plate-tin	17	98
Platina del pinto	22	229
Platiniridium	22	229
ingot	22	230
Platinite	20	323
Platinum	5	440
	5	441
	17	44
	18	704
	22	229
	24	46
apparatus	7	219
black	22	231
metals, five allied	22	232
method of refining	22	231
sponge	22	231
sponge, method of making a compact metal out of	22	230
ware, purity of	22	231
Plattner process	13	19
Poling	15	104
Porter	15	104
Prince Rupert's drops	22	583
Prince's metal	22	583
Proof bar	15	104
Prussian blue	15	362
Puddling	15	104
process	15	367
	25	572
wet	15	367
Quicksilver	18	669
Reducing furnace	15	104
Refining	23	500
Rhodium	22	232
	23	476
Riehlé testing machine	26	454
Roasting	15	104
Robert process	25	565
Rubidium	23	748
Russell process	25	13
Ruthenium	22	232
	24	67

General — cont'd	Vol.	Page
Saint Etienne metallurgical establishments...	24	128
Sand molding.....	11	541
Sclerometer	24	424
Scorification process.....	2	413
Siemens-Halske process.	13	19
Siemens-Martin process.	25	574
	25	579
Silicon	15	369
	25	592
Silver	18	704
	25	12
ores	25	12
physical properties of	25	12
sycee	26	155
Slag	4	68
	25	583
Smalt, or powder blue..	7	173
Smelting	25	13
furnaces	25	567
iron	15	97
Smithing	8	340
Soaking	15	104
Solder	25	237
spelter	4	418
Soldering, autogenous...	15	98
metals	15	517
Spelter	25	389
Spiegeleisen	25	410
Spitzkasten	13	18
Spitzlutte	13	18
Stassano process.....	25	567
Steam-blowing engines..	15	364
Steel	25	562
	25	576
acid open hearth....	25	474
acid practice.....	25	582
allotropic theory of hardness of.....	25	599
alloy	4	583
alloys, chemical constitution of...	25	592
electrical conductivity of...	25	593
special properties of some...	25	594
alpha iron theory of hardness of.....	25	600
amorphous iron theory of.....	25	600
basic	15	374
	25	562
open hearth.....	15	374
	25	574
Bessemer process....	25	563
blister	25	562
	25	571
carbon theories of hardness	25	600
cast	5	719
	25	562
castings	25	584
cold bending tests of	25	597
color, oxidization of.	26	405
crucible	25	562
	25	570
	25	576
early stress theory of hardness of.....	25	600
electrical processes of manufacture	25	566
electrolytic	15	285
eutecoid	25	562
evolution of steel-making processes..	25	570
fuel for crucible.....	25	577
hard	25	579

General — cont'd	Vol.	Page
	25	597
hardened high-carbon	25	593
heat treatment of...	25	575
high-speed	25	562
	25	593
hypereutectoid	15	386
hypo-eutectoid	25	562
interstrain theory of hardness of.....	25	600
low carbon.....	25	563
manganese	25	595
manufacture of crucible	25	576
melting	25	578
open hearth manufacture	15	284
	25	579
process of making fine	15	284
shear	25	562
	25	571
single-shear	25	562
soft tool	25	579
spark test of.....	25	598
special or alloy.....	25	591
sub-carbide theory of hardness of.....	25	600
test for hardness in.	25	597
testing of.....	25	596
theories of hardening	25	598
tool	25	568
	25	576
turning and amorphous iron theory of hardness of.....	25	600
under-saturated	15	386
Steels, spring.....	25	594
Stellite	25	613
Sterling	25	629
Stoves, regenerative.....	15	364
Sulphur	15	370
	25	592
Swage block.....	26	106
Talbot process.....	25	579
Tempering	26	405
Tensile test.....	26	455
Testing machines.....	26	454
Thermit	26	525
Tin	18	704
	26	638
characteristics	26	638
foil	25	238
ores	26	638
refining process.....	26	638
specimens ingredients	26	639
stone	26	638
Titanium	25	595
Tombac	26	682
Touchstone	13	10
	26	718
Trompe	15	363
Tropenas process.....	25	565
Trough converter.....	25	811
Tungsten	17	46
	18	704
	27	144
Turgite	27	178
Uranium	25	595
Vanadium	18	704
	25	593
	27	675
Washed metal.....	25	577
Washoe process.....	25	13
Water blower.....	15	363
Welding	29	177

General — cont'd	Vol.	Page
electric	10	147
gas (oxy-acetylene).	29	177
spot	10	149
White cast iron, microstructure of.....	15	387
White gold.....	22	229
White metal.....	29	272
Willey tables.....	13	18
Witwatersrand	13	11
conglomerates	13	18
Wrought iron.....	15	361
	25	571
Finery method.....	15	366
microstructure of commercial	15	383
Zinc	10	187
	18	704
	29	710
precipitates	13	19
smelting	29	711

See also Chemistry and Chemicals; Foundry Practice, Machinery and Machine Work; Mineralogy, Mining and Mineral Resources; Physics.

Biographies

	Vol.	Page
Arents, Albert.....	2	191
Beardslee, Lester Anthony	3	381
Bessemer, Henry.....	3	587
	25	573
Budd, James Palmer....	15	364
Colby, Albert Ladd.....	7	234
Colby, Edward A.....	25	569
Cort, Henry.....	25	572
Cowper, E. H.....	15	364
Darby, Abraham.....	15	364
	25	572
Dudley, Dud.....	25	571
Forrest, R. W.....	13	19
Gayley, James.....	6	404
Holley, Alexander Lyman	14	319
	25	566
Howe, Henry Marion....	14	455
	15	385
Huntsman, Robert.....	25	572
James, Alfred.....	13	19
Keep, William John.....	16	334
Kelly, William.....	16	344
	25	564
	25	572
Krupp, Alfred.....	16	547
McArthur, J. S.....	13	19
Mushet, Robert.....	25	566
Neilson, James Beaumont	15	364
	20	62
	25	572
Parry, G.....	15	364
Plattner, Karl Friedrich	22	239
Richards, Joseph William	23	492
Sauveur, Albert.....	24	321
Sexton, Alexander Humboldt	24	630
Siemens, Karl Wilhelm..	24	793
Siemens, Sir William....	25	566
	25	572
	25	574
Sjöstedt, Ernest Adolf..	25	65
Sorby, Henry Clifton....	15	385
Taylor, P.....	15	364
Thomas, Sidney.....	25	574
Traphagen, Frank Weiss	27	16

METEOROLOGY

General	Vol.	Page
Aeroklinoscope	1	180
Aërolites	18	712
Afterglow	1	227
Air drainage	12	126
dust in	18	716
Air, general circulation of	18	719
local circulation of	18	719
Alto-cumulus	7	130
Alto-stratus	7	130
Anemoscope	29	379
Antarctic region	2	13
Anticyclone	2	27
	18	719
temperatures of	18	719
Antitrade	2	41
Aqueous vapor, weight of a cubic foot of	23	187
Arctic region	2	187
Argentina, climate of	2	198
Atmosphere	2	507
	12	425
	22	43
carbon dioxide in	18	716
height of the homogeneous	2	509
ozone in	18	716
source of	18	715
water vapor in	18	716
Atmospheres, lost	18	715
Atmospheric air	18	715
Atmospheric pressure	18	718
	23	186
Barometric gradient	18	718
Beaufort scale	3	389
Bleasard	4	90
Blizzard	4	90
Blood-rain	4	112
Blue Hill Observatory	4	125
Bore	4	269
Buys-Ballot law	5	94
Calms, region of	5	229
zone of	5	229
Chinook wind	6	560
Chromosphere	6	634
Circulation, general	18	719
local	18	719
Cirro-cumulus	7	130
Cirro-stratus	7	130
Cirrus clouds	7	129
Climate	7	104
	8	603
	26	116
and animals	7	109
and plants	7	110
basis of	7	104
change of	7	108
determined by oceanic winds	13	171
effect of forests on	7	108
effect on races	7	107
of the prairies	22	505
variations in	7	105
Cloudburst	7	129
Clouds	7	129
	7	131
colors of	7	131
Cold wave	7	240
	18	720

General — cont'd	Vol.	Page
Cosmos	8	37
Cotidal	8	57
Crystallic growths	25	149
Cumulo-nimbus	7	130
Cumulus	7	130
Cyclone	8	362
	18	719
temperatures of	18	719
Dew	9	44
point	18	716
Dust	9	429
in the air	18	716
Eagre	4	269
	9	475
Earth	9	488
and air, nocturnal cooling of	18	717
Earthquake	9	494
Earth's heat	18	716
Electric storm	10	136
Electric waves	10	147
Electricity, atmospheric	10	181
Elmo's Fire, Saint	10	261
Equinoctial gale	10	463
Etesian winds	10	531
Euroclydon	10	580
Eurus	10	583
Evaporation	10	594
Fata Morgana	11	53
Flagstaff Observatory (Melbourne)	20	99
Floods	14	545
and inundations	11	360
effect of forests on	7	109
Foehn wind	11	411
Fog	11	411
Forecasting	29	134
France, climate of	11	699
Frost	8	63
	12	124
	18	718
Gases of the atmosphere, proportions of	18	715
Great centres of action	18	719
Hail	13	620
Harmattan	13	711
	25	26
Haze	14	23
Heat received each day	18	717
High-mountain observatory, first American	14	297
Humidity	23	187
relative	18	716
Hurricanes	18	720
Hydrology	14	580
Ice	14	620
Indian summer	15	132
Interstellar space, heat of	18	716
Inundations	15	273
Isobars	18	718
Isothermal layer	18	717
Krusin	25	26
Land and water, unequal heating of	18	717
Lightning, artificial flashes of	17	433
ball	17	433
flash	17	433

General — cont'd	Vol.	Page
sheet	17	433
stroke	17	433
Lysimeter	17	787
Medano	18	532
Meteoric stones	18	712
Meteoritic hypothesis	18	714
Meteorites	18	712
Meteorology	18	714
applied	18	714
history of	18	714
marine	18	720
theoretical	18	714
Meteors	18	712
Mock-sun	26	29
Monsoons	19	378
Mount Hecla, eruption of	18	714
Mountain peaks, coldness of	18	717
Nimbus	7	131
	20	349
Notus	20	460
Ocean temperatures	18	717
Paleoclimatology	21	170
Parhelion	26	29
Planetary wind belts	22	43
Precipitation	22	43
	29	41
	29	43
Pressure, distribution of	18	718
Primary bow	23	181
Rain	23	179
Rainbow	23	181
Rainfall	8	63
	23	186
(Dominica)	9	243
by concussion	23	181
in Africa	23	192
in Asia	23	192
in Australasia	23	193
in Austria	23	191
in Canada	23	190
in China	23	192
in France	23	191
in Germany	23	191
in India	23	192
in Ireland	23	191
in Italy	23	191
in Java	23	193
in Latin America	23	190
in Norway	23	191
in Oceanica	23	193
in the Philippines	23	193
in Russia	23	191
in Scotland	23	191
in Spain	23	191
in South America	23	190
in Switzerland	23	191
in United States	23	188
in Wales	23	191
in various parts of the world	23	180
Rain making	23	181
Rain by scientific processes	23	181
Red snow	23	285
Red sunset	23	285
Regional precipitation	23	187
Saint Elmo's Fire	10	181
Samieli	25	26
Samun	25	26

General — cont'd	Vol.	Page
San Antonio, climate of	24	231
San Francisco, climate of	24	235
Sardinia, climate of	24	299
Saturation	24	313
Saturated vapor, elastic pressure of	23	183
Seasons, change of	22	43
Secondary bow	23	182
Siberia, climate of	24	769
Simoom	25	26
Sirocco	25	26
	25	46
Sleet	25	96
Snow	25	148
crystals	25	148
	25	150
Solano	25	26
Solar days absorbed by the atmosphere	18	717
Spain, climate of	25	325
Spring tide	25	454
Squaw winter	15	32
Storms, origin of	18	719
Strato-cumulus	7	130
Stratus	7	130
Sun-dog	26	29
Sun's heat variable	18	717
Switzerland, climate of	26	144
Temperature	23	186
annual range of	18	718
diurnal range of	18	718
reversion	18	717
vertical decrease of	18	717
Temperatures of cyclones and anti-cyclones	18	719
Terrestrial radiation	18	717
Texas, climate of	26	460
Thunderstorms	18	720
Tidal phenomena	14	579

General — cont'd	Vol.	Page
Tornado	18	720
	26	702
alarm	26	702
Trade winds	2	505
	18	719
	26	764
Tripoli, climate of	27	75
Typhoon	27	243
Vapor constituent of the atmosphere	23	186
Vapor-laden clouds	23	187
Vertical decrease of temperature	18	717
Warm waves	18	720
Water mark	29	23
Waterspout	29	79
Weather	29	130
Weather bureau	29	131
flags	11	318
Weather bureau's report	23	188
map	29	132
signals	24	802
Wind	29	377
belts	22	43
vane	29	379
Zephyr	29	703

Biographies

Biographies — cont'd	Vol.	Page
Abbe, Cleveland	1	11
Bache, Alexander Dallas	3	15
Bezold, Wilhelm von	3	607
Bigelow, Frank Hagar	3	695
Blodget, Lorin	4	101
Boothia, Felix	4	254
Buys-Ballot, Christophorus Henricus Didericus	5	94
Coffin, James Henry	7	212
Daniell, John Frederick	8	456
Deluc, Jean André	8	629
Denza, Father	15	534
Draper, Daniel	9	312
Dunwoody, Henry Harrison Chase	9	409
Espy, James Pollard	10	506
	18	715
Falb, Rudolf	10	723
Ferrel, William	11	139
	18	719
Finley, John Park	11	226
Franklin, Benjamin	18	714
Freeden, Wilhelm Jhno Adolf	12	48
Glaisher, James	12	680
Guyot, Arnold	13	584
Hertz, Heinrich Rudolph	10	147
Jacobs, Michael	15	592
Jefferson, Thomas	18	714
Madison, James	18	714
Knoche, Walter Alfred	16	488
Marvin, Charles Frederick	18	844
Maury, Mathew-Fontaine	18	715
Mistral, F.	19	262
Mohn, Henrick	19	309
Moore, Willis Luther	19	434
Neumayer, Georg von	20	99
Redfield, William Charles	18	715
	23	287
Reid, Sir William	23	332
Rotch, Abbott Laurence	23	716
Smallwood, Charles	25	108
Stupart, Robert Frederic	25	755
Waldo, Frank	28	223
Wild, Heinrich	29	302

MILITARY SCIENCE AND HISTORY

General

General	Vol.	Page
Abatis	1	8
Abattis	1	8
Accuracy of fire	1	81
Adit	1	140
Aeronautics	1	182
	19	86
military	19	59
Air Service statistics	28	456
Architecture, military	19	62
Ardois signals	19	91
Arsenal	2	331
Art of war	2	346
	19	83
Articles of war	2	359
Artillery	2	363
	25	714
aircraft	13	566
coast	7	166
field	2	364
	13	563
horse	2	363
naval	13	568
sea-coast	2	368
	13	563
siege	2	367
	13	563
Armistice	2	273
Armor plate	2	275
Armory	2	278
Army	2	287
Army of —		
Argentina	2	221
Australia	2	616
Austria	2	296
	2	627
Belgium	3	461
Brazil	4	443
Canada	5	410
Chile	6	509
China	6	524
Cuba	8	284
Denmark	8	681
France	2	296
	11	726
Germany	2	296
	12	636
Great Britain	2	295
	13	328
Italy	2	296
	15	482
Japan	2	296
	15	720
Mexico	18	759
Netherlands	20	90

General — cont'd	Vol.	Page
Norway	20	439
Peru	21	647
Russia	2	296
	24	51
Spain	25	828
Sweden	26	117
Switzerland	26	149
Turkey	27	183
United States	2	292
	27	509
Army nurses, pensions	21	548
Arrest, military	2	327
Attaché	2	519
Azimuth deviations	19	91
Ballistics	3	101
exterior	13	550
interior	13	550
Banquette	3	215
Barbacan	3	279
Barbette	3	237
Bard	3	244
Bards	3	245
Barracks	3	274
Barrage	3	275
	19	91
	28	312
fire	27	41
Base	3	302
	19	91
Bastion	3	324
Bastioned enceinte	11	515
fort	11	516
Battlements	3	347
Beacon	3	373
Belgian pits	19	91
Belligerency	3	484
Belligerent	3	486
Berm	3	566
Berme	3	566
Billeting of soldiers	3	705
Bleiazid	4	76
	19	91
Blockhouse	4	101
Bonnet	4	220
Bombproof	4	202
Bracket	19	91
Breastplate	4	453
Breastwork	4	453
Bridges	19	72
	28	158
Bugle calls	4	700
Burst interval	19	91
Bushwhacker	5	74
Cantonment	5	587
Camouflage	5	268
	19	91
Camp	5	270
Cap-à-pie	5	542
Captain	5	573
Caponiére	5	569
Caponnière	5	560
Cartel	5	678
Casemates	5	699
Cashier, to	5	703
Castle	6	7
Castrametation	6	17
Cavalry	1	162
	6	138
Celeres	6	167
Chateau Gaillard	6	8
Chateau of Pierrefonds	6	8
Cheval	6	430
position, a	1	88
Chevaux de frise	6	430
Chevron	6	432
Citadel	6	690
Clock-face method	19	91
Close billets	19	91
Coefficient of wind-pressure	19	91
Coast fortifications	11	521

General — cont'd	Vol.	Page
Coast and Geodetic Survey, United States	7	168
Colors, insignia	7	328
	19	74
Combat	7	349
practice	19	91
Commission	7	402
military	7	403
Communication trenches	19	69
	19	91
Communicating trenches	19	69
	27	40
Compulsory military service	7	544
	9	292
Concealment	19	70
Concentration camp	7	458
Cone of dispersion	19	91
Conscription	7	544
	9	292
	14	728
Conscripts	24	51
Conquest, right of	7	534
Convergence difference	19	91
Cordon	7	689
Covered way	8	131
Council of war	8	98
Counter trenches	19	69
	19	91
Countersign	8	106
Cover trenches	19	69
	27	40
Covering position	19	91
Cuirassier	8	294
Crenelle	8	179
Danger angle	19	91
space	19	91
Decimation	8	559
Deflection	19	91
difference	19	91
Demolitions	19	72
Depot	8	703
Deserter	9	8
Desultores	9	16
Diamond hitch	19	92
Dissimulation	19	92
Distinguished Service Order	9	186
Direct fire	13	551
Ditch	9	196
Donjon	9	258
Dragoon	9	297
Drafts	9	292
Drift	13	551
Duel and dueling	9	385
Dugout	9	389
Dutch school of fortification	11	518
Earthworks	9	499
Echelon	9	541
	19	92
Effectiveness of fire	19	92
Elements	19	92
Embrasure	10	275
Enceinte	10	314
Enemy alien problems	10	325
Energy of recoil	19	92
Enfants perdus	10	333
Enfilade	10	334
Enfilading battery	19	92
Enlistment	10	390
Engineering	2	346
	10	346
military	19	68
Enlistments	10	390
	11	726
Epaulet	10	411
Equestrian order	10	460
Equites	10	460
Escarp	10	490
Escort	10	496

General — cont'd	Vol.	Page
Esquire	10	507
Examining post	19	92
Exterior ballistics	13	50
Evacuation points	19	92
Fabian	10	691
Fatality in color	11	54
Fencing	11	113
Field army	2	295
fortifications	11	519
Files	19	92
Fire action	19	69
Firing trenches	19	69
	27	40
Flag of truce	11	308
	11	310
Food, rationing of	11	442
problems and the European War	11	441
Forage	11	459
Fortifications	6	135
	11	515
	19	69
	19	85
Bastional system	11	515
coast	11	521
Dutch school	11	518
field	11	519
French school	11	518
system of	11	516
permanent	11	520
Frontier, military	12	123
Furlough	12	180
Gabion	12	214
Galleries	12	244
	19	169
Gas, mustard	19	655
poison	2	407
	22	282
Gas warfare	19	92
Genouillere	12	400
Golconda	13	8
Ground section	19	92
Grenadier	13	460
Guerrilla	13	526
Guides	13	532
Gun	13	547
Gunnery	13	550
Gunshot wounds	19	90
Gyroscopic action	13	551
Hostage	14	434
	28	675
Hang-fire	13	552
Haxo casemate	14	12
Height of burst	19	92
Hetman	14	160
High-angle fire	13	551
Horse artillery	2	363
Hygiene, military	14	592
Impressment	14	728
Infantry	1	163
	1	582
	15	116
Interior ballistics	13	550
Intrenchment	15	271
Invasion	15	280
Insignia of rank	19	74
Austria-Hungary	19	76
Confederate States	19	75
France	19	76
Germany	19	75
Great Britain	19	75
Italy	19	76
Japan	19	77
Russia	19	77
Spain	19	77
United States	19	74
Jacks	11	308
Journal of attack	19	92
of defense	19	93
Jump of a gun	19	93
Law, Military	17	138

General — cont'd	Vol.	Page
Local trenches	19	69
	27	41
Location of firing trenches	27	40
Long range searching fire	27	41
Lookout posts	19	93
Longitudinal deviation	19	93
resistance	19	93
Levy	17	332
Logistics	2	346
	17	610
Loot	17	653
Map reading	19	93
Mean radical distance	19	93
Meeting engagements	19	93
system of convoys	19	93
Mess	18	690
Militarism	19	59
Military aeronautics	19	59
architecture	15	515
conscriptions	9	292
engineering	19	69
insignia of rank	19	74
pensions	21	547
reconnaissance	19	93
reservations	19	80
sanitation	19	80
science, development of	19	81
surgery	19	86
terms	19	90
vocabulary	19	93
Mines and mining, military	19	71
	19	169
Mobilization	19	281
Mougin subterranean concrete fort	11	521
Mustard gas	19	655
Nation in Arms principle	19	85
National salute	19	93
Noizet system of fortification	19	93
Non-combatants	20	393
Nurhag	20	502
Oath, military	20	532
Observation	19	93
Observations	19	70
Ordinary billets	19	93
Overhead fire	19	94
Panorama sketch	19	94
Parapet	21	287
Parlementaire	21	338
Parley	21	338
Parole	8	106
	21	341
Patrol	21	405
Pennants	11	308
	21	517
Permanent fortifications	11	520
Perspective projections	22	644
Petard	21	655
Picket	22	67
Pill box	19	94
Plunging ricochet	19	94
Point blank range	19	94
Pontoon	22	352
Pontons	19	72
Position	19	70
Practice marches	19	94
Prisoners of war	22	602
Private war	28	257
Prize	22	615
Profiling	19	94
Projectiles	22	640
Protective cavalry	19	94
Proving ground	22	710
Psychiatry and war	22	731
Quadrilateral	23	54

General — cont'd	Vol.	Page
Quarter-sights	19	94
Range	23	210
Range, azimuth table	19	94
Rank	23	211
Ration	23	225
Rebellion	23	265
Rear	23	262
Record practice	19	94
Recruiting	11	726
	11	727
Redan	23	286
Re-entering place of arms	19	94
Rendezvous	19	94
Representative fraction	19	94
Reservations, military	23	410
Reserve	23	410
Reveillé	23	440
Rolling fire	19	95
Route marches	19	95
Russian sap	19	95
Sacraments	24	91
Salient	19	95
Salutes, military	24	209
with cannon	24	210
Salvo	19	95
Sandbags	24	253
Scarp	10	490
Searchlight, application	24	488
Sector	19	95
of explosion	19	95
without fire	19	95
Service colors and standards	19	95
of the interior	19	95
Sheaf ranging	19	95
Shell	22	640
Shell shock	19	90
Shelter recess	19	95
Shot group	19	95
Shoulder insignia	19	74
Signals and signaling	24	801
Skirmishers	25	77
Sleeve insignia	19	74
Spade warfare	19	95
Spotters	13	552
Spy	25	461
Standing army	2	359
Stockade	25	659
Supervision trenches	19	95
Swiss Guards	26	141
Tirailleur	26	644
Tower forts	19	96
Trajectory	13	551
Transport	27	8
Trenches	27	39
enclosed	24	791
Trench warfare	19	86
Truce	27	102
Underground communications	19	71
Volunteers	28	180
War	28	257
War eagle	28	677
indemnity	28	679
instrumentalities and methods of	28	670
Water supply for camps	14	593
Wing traverses	19	96
Wojwode	29	435
Zareeba	29	704
Zeriba	29	704

Army Administration and Organization

Army Administration and Organization — cont'd	Vol.	Page
Adjutant	1	141
Adjutant-General's department, U. S. A.	2	293
Advance dressing station	18	560
guards	1	161
section	19	91
Aid station	18	560
Air squadrons in the World War	28	456
Aircraft Board, United States	28	455
Alignment	19	91
Ambulance companies	1	474
corps	1	476
	18	551
company	2	294
American air force in the World War	28	452
Ammunition service	1	582
Ammunition train section	2	294
Administration of American forces in Europe	28	508
Animal transportation	2	307
Appointing power, military	2	91
Armament district	2	265
Army	2	287
administration	2	290
Ambulance Corps, United States	18	551
artillery	2	364
Brazilian	4	443
commissary	2	290
corps	2	290
Dental Corps, United States	18	550
dispensaries	2	291
divisions	15	720
French	11	726
general staff	12	376
Medical Board, U. S.	2	291
Medical Board, general, United States	18	552
Army Medical Corps, United States, civilian personnel	18	552
United States, Co-operating agencies	18	552
United States, surgeon general's office	18	553
Medical School, U. S.	2	291
nurse corps	2	292
	18	551
organization	2	292
Austria	2	296
	2	627
British	2	295
	13	328
France	2	296
	11	726
Germany	2	296
	12	606
Italy	2	296
	15	482
Japan	2	296
	15	720
Russia	2	296
	24	51
Swiss	26	149
Turkey	27	183
	28	402
United States	2	292
	18	548
	27	509
ration	2	296
register	2	297
regulations, United States	2	297
reserve	2	300
	23	410
Russian	24	51

Army Administration and Organization—cont'd Vol. Page

sanitary officers, United States 18 572
schools 2 300
school of nursing... 18 551
service schools..... 2 303
service corps, British 2 302
staffs 2 303
Swedish 26 117
Territoriale 2 304
transport service.... 2 304
transportation 2 306
animal 2 307
railroad 2 307
wagon 2 308
United States Medical Organization.. 18 548
Artillery 1 162
1 582
2 363
25 714
Aviation section of the signal corps, U. S. A.. 27 551
Base hospital..... 14 432
Battalion 3 340
of engineers..... 2 294
of field artillery 2 294
of infantry..... 2 294
reserves 19 91
signal corps..... 2 294
Batteries 2 365
Bombardier 4 199
Brigade 2 295
4 535
Brigade major..... 4 536
Brigadier-general 4 536
Bureau of Insular Affairs (U. S.)..... 2 293
Bureau of Militia Affairs (U. S.)..... 2 293
Captain 5 573
Captain-general 5 573
Cavalry 1 582
6 138
11 728
15 117
Centurion 6 216
Chaplain 6 296
Chasseur 6 347
Chasseurs forestiers.... 11 729
Chief of staff..... 12 376
23 63
Clothing 15 721
Coast artillery..... 7 166
13 563
Coast artillery company. 2 294
artillery corps..... 2 293
defense 7 166
7 167
Colonel 7 286
Colonial gendarmerie, French 11 729
troops, French 11 726
11 729
Commander 1 163
Commander-in-Chief ... 7 363
Commandery 7 364
Commanding officer 7 364
Commissariat 7 402
Company 7 426
Constable 7 551
Contingent 7 590
Contract surgeons, U. S. A. 7 599
18 552
Cordon grand..... 7 600
Corporal 8 1
Corps 8 16
artillery 2 364
de douanes, French. 11 729
d'armée 8 16

Army Administration and Organization—cont'd Vol. Page

de garde 8 16
of engineers, U. S. A. 26 99
Cossack voiskos..... 24 59
Court-martial 17 139
Debarkation hospital ... 14 432
Dental corps, U. S. A... 8 687
18 550
Departmental gendarmerie, French 11 729
Division 9 205
field sanitation, U. S. A..... 18 553
finance and supply.. 18 553
food and nutrition.. 18 554
hospitals 18 556
internal medicine... 18 555
infectious diseases.. 18 555
Roentgenology 18 558
psychology 18 555
special hospitals and physical reconstruction 18 556
surgery 18 558
of the head..... 18 556
urology 18 555
Dressing stations..... 19 92
Dragoon 9 297
Engineers 11 729
Engineers, corps of, U. S. A..... 10 352
corps 2 293
Engineers' service, French 11 728
Enlisted reserve corps, U. S. A..... 18 554
Evacuation hospital, U. S. A..... 14 431
18 561
Ensign 10 398
Execution, military..... 10 621
Field artillery..... 2 364
11 728
bakery 2 294
battery 2 294
brigade 2 293
hospital 14 431
hospital companies.. 14 427
hospitals, function of 14 427
marshal 11 182
marshals, council of. 15 720
service regulations.. 11 183
Fire control..... 19 92
direction 19 92
discipline 19 92
Flank guard 11 334
Flight commander..... 19 92
Flying column..... 11 407
corps, U. S. A., personnel 27 552
General 12 371
courts-martial 17 140
hospitals 14 431
medical board..... 18 552
staff corps..... 2 293
2 304
12 376
Great general staff..... 2 304
Group of posts..... 19 92
Guards 13 515
Gun squads..... 19 92
Heavy artillery..... 11 728
High command..... 11 726
Horse artillery..... 11 566
11 728
Hospital corps, United States army..... 14 432
18 551
Hospitals, field..... 14 426
military 14 431

Army Administration and Organization—cont'd Vol. Page

Hospital ships..... 14 433
Independent cavalry.... 19 92
Infantry 11 728
15 116
24 51
brigade 2 293
company 2 294
co-operation with other arms..... 15 117
division 2 293
mounted 15 119
Infantry headquarters company 2 294
Infantry, mounted..... 15 119
supply company.... 2 294
Infantry regiment..... 2 293
Inspector 15 166
General 15 166
Inspector-General's department, U. S. A.... 2 293
Janizaries 15 613
Judge-Advocate 16 232
Judge-Advocate General 16 232
Judge-Advocate's department, U. S. A.... 2 293
Landsturm 16 712
Landwehr 16 712
Law, Military..... 17 138
Laws of war..... 17 151
Legal Advisory Board.. 24 538
Lieutenant 17 407
colonel 17 407
general 17 407
Machine gun company.. 2 294
gun troop..... 2 295
Major 18 156
Marine corps..... 18 288
Marshal 18 325
Marines, United States.. 18 288
Medical advisory boards 24 538
Medical corps, United States 18 537
18 549
department 2 293
U. S. A. Cooperating Agencies.... 18 552
organization in the United States army 18 548
reserve corps..... 26 73
Military arsenal, Japanese 15 271
central exchequer, Japanese 15 720
courts-martial 19 65
education 19 67
headquarters 24 52
order 19 93
organization of railways 11 718
police 2 294
19 78
19 93
prisons 15 724
19 78
stations 15 720
supply system..... 15 721
system, Canadian... 5 410
Militia 19 98
American 19 100
English 13 330
19 98
State 19 101
Mixed batteries..... 19 92
Munitions service, French 11 728
Mountain artillery, French 11 728
Mobilization, French ... 11 729
Motor transport corps, United States..... 18 551

Army Administration and Organization—cont'd	Vol.	Page
Non-commissioned officers	20	394
officers of the active army, French	11	727
North Atlantic coast artillery district	7	167
Offensive patrols	19	93
Officers in French army	11	731
Officers' reserve corps	24	537
Organization of armies	2	346
Ordnance department, U. S. A.	2	293
	29	770
depots	19	93
Pacific coast artillery district	7	167
Pack transportation	19	94
Patrol	21	405
Patrols	19	94
Pensioned officers, French	11	727
Personnel of a field hospital at war strength	14	427
Phalanx	21	704
Pioneer company of engineers	2	294
Pioneer work in the care of wounded soldiers	14	431
Platoon	2	293
	11	728
	22	236
company of engineers	2	294
Protective patrols	19	94
Provost guards	19	94
marshal	22	711
Quartermaster	23	63
corps, U. S. A.	2	293
	23	63
general, U. S. A.	23	64
sergeant, U. S. A.	23	64
Quarter guard	19	94
Railroad transportation	2	307
Range officer	19	94
Rank	23	211
Ranks in French army	11	727
Rear guard	23	262
Regiment	23	321
Regiment of engineers	2	295
of cavalry	2	295
Regimental camp infirmaries	18	561
detachment of the medical corps	2	295
Regiment of field artillery	2	295
Relative rank between officers of the army and navy	23	212
Relief	19	94
Remounts, inspection of	14	401
Republican guard, French	11	729
Reserve officers, French	11	727
Royal carabinieri, Italian	15	482
Russian cossacks	24	58
Sanitary service	19	95
officers	18	552
train	19	95
Sanitation, military	19	80
Secondary bases	19	95
Second line	19	95
Selective Service Law and Draft, United States	24	535
Sentry over arms	19	95
squad	19	95
Sergeant, army	24	591
Sharp shooters	24	662
Siege artillery	2	364

Army Administration and Organization—cont'd	Vol.	Page
Signal corps	2	293
organizations	26	327
outpost company	2	294
radio company	2	294
wire company	2	294
South Atlantic coast artillery district	7	167
Squad	2	293
	25	462
Squadron	25	462
of cavalry	2	294
Staff	25	469
Statistical bureau, U. S. A.	18	554
Surgeon in the United States army	26	73
general's office, U. S. A.	18	553
Supply columns	19	95
railways	19	78
	26	51
train	19	95
troop of cavalry	2	294
Swiss army	26	149
Teamwork	19	95
Telegraph battalions	26	327
Territorial army, French	11	729
force, British	13	330
Troop of cavalry	2	294
Turkish army	28	402
United States army	2	292
	27	509
United States Flying Corps	27	551
Sanitary Commission	27	562
Veterinary corps, U. S. A.	18	550
Visiting patrols	19	96
Volunteers	28	180
British	13	330
War	28	257
Office, British	28	682
Wagon transportation	2	306
Water supply for camps	14	593
Yeomanry	13	330
Zouave	29	734

Military Equipment

Military Equipment—cont'd	Vol.	Page
Accoutrements	1	80
Aerial mine	19	91
Aeroplane	1	187
	19	62
Aircraft guns	13	563
	13	566
Air cylinder	1	288
gun	1	288
Ambulance	1	474
Ammunition	1	581
	13	568
trains	1	581
Anelace	8	391
Anti-aircraft guns	2	24
	13	563
	13	566
Antierosion coating	2	27
Aparejo	2	52
Arab arms	15	746
Arbalests	8	237
Armament	2	265
	11	729
	11	732
Armed tractor	19	91
Armored tractors	2	277
Armor piercing projectiles	2	273
	22	641
Armorer	2	278
Arms	2	279
and armor	2	281
stand of	2	281

Military Equipment—cont'd	Vol.	Page
Arquebus	2	324
Arrow	2	329
Asphyxiating gases	2	407
	22	282
Aspic	2	408
Assegai	2	414
Automatic firearms	25	105
Automobile torpedo	2	666
Baggage	3	41
Ball	3	93
Ballistic pendulum	3	101
Balloon	1	183
	3	107
	19	59
	19	85
Bandolier	3	140
Bartizan	3	292
Bascinet	3	301
Basnet	3	301
Base fuses	12	201
Battering ram	3	341
Battle axe	3	345
sight	19	91
Bayonet	2	*284
	3	366
Bill	3	702
Bipennis	3	723
Blimp	19	60
	28	454
Blunderbuss	4	132
	24	755
Body armor	2	283
Bomb	4	198
aircraft	4	198
aerial	4	198
Marten-Hale	4	198
poison gas	4	198
Bombardello	25	101
Bombs	22	642
Bow	2	282
	4	358
Bowie-knife	4	364
Bowl	14	84
Brassards	4	419
Brassarts	4	419
Breastplate	4	453
Breechloader	25	101
Breech-loaders	2	279
Breech-loading field gun	19	82
cannon	22	644
Brigandine	4	536
British dress uniforms	27	284
Broadsword	4	568
	11	113
Brownbill	3	702
Browning machine gun	13	568
	18	56
Brown powder	13	560
Buckler	4	668
Buckshot	4	669
Bullet	5	15
	25	102
Busby	5	72
Caliver	5	223
Canister-shot	22	643
Cannon	2	284
	13	556
	20	770
chamber of	6	258
Canteen	5	529
Capeline	5	550
Capelline	5	550
Captive balloon	19	60
Carcass	5	596
	22	642
Carrier pigeon	14	341
Carronade	5	674
Cartridge	5	686
Cartouch	5	686
Cartouche	5	686

Military Equipment — cont'd	Vol.	Page
Case-shot	5	698
	22	642
Catapult	6	45
Cavalry horses	14	401
Chain armor	2	283
	6	244
shot	6	246
Chariot	6	306
Chassepot rifle	6	347
Chemical fuses	12	202
Chinese arms	15	746
powder	13	557
Charleville musket	25	102
Claymore	7	73
Close helmets	14	85
Coat of mail	7	172
Colletin	14	84
Colors	7	328
Colt machine gun	18	56
Combat trains	1	581
Common shrapnel	22	641
steel shell	22	641
Cordeau detonant	12	201
Corned powder	13	558
Coventry ordnance works machine gun	13	568
Cradle	8	148
Crakys	13	557
Crest	8	182
	14	84
Crossbow	2	284
à jalet	8	238
Crossbows	8	237
Cuirass	2	282
	8	293
Culverin	8	297
Daggers	8	391
Dahlgren gun	2	364
	8	394
Dart	8	481
Deport's gun	13	564
Detonators	9	27
Dirk	8	391
	9	148
Dispart	9	167
Disappearing gun	18	455
gun carriage	15	284
Dolman	9	238
Dulle griete	13	557
Dumdum bullet	9	397
Elbow pieces	10	56
Elf arrows	10	237
bolts	10	237
shot	10	237
Elongated projectiles	22	643
Emmensite	22	70
Enfield rifle	10	334
Equipment	11	729
Estoc	10	524
Expanding projectiles	22	644
Explosives. See under Chemistry—Explosives.		
Falcon	10	726
Fascine	11	50
Fatality in color	11	54
Female tanks	26	244
Field guns	13	564
telephone	19	92
wireless	19	92
Files	19	92
Firearms	11	248
Fire balls	11	233
Flame thrower	17	497
	28	673
Flammenwerfer	17	497
Flintlock	11	358
Foil	11	113
French 75-millimeter field gun	13	564
French pieces	13	563
uniform	27	284

Military Equipment — cont'd	Vol.	Page
wire entanglements	29	412
Fulminates	12	157
	25	101
Fuse	12	201
base	12	201
chemical	12	202
high tension	12	201
nose	12	201
taped	12	201
Gambeson	12	261
Gardner machine gun	18	57
Gas helmet	19	92
mask	22	283
projectile	19	86
shells	22	282
Gatling gun	15	284
	18	57
Gauntlets	12	341
Gisarme	3	702
Glaive	3	702
Gonfalon	13	45
Grape-shot	13	145
	22	642
Greaves	2	283
Greek fire	13	393
	14	278
	15	393
	15	557
Grenade	4	198
	13	459
	22	642
incendiary	19	92
illuminating	19	92
parachute	19	94
rampart	22	642
Guidon	13	533
Gun	13	547
Gunner's quadrant	13	550
Gunpowder	13	553
	14	278
smokeless	15	284
Guns	13	556
aircraft	13	566
ammunition	13	568
anti-aircraft	13	566
coast artillery	13	563
field	13	564
history and development	13	556
land	13	562
machine	13	568
	18	55
	19	86
siege	13	563
Hairbrush grenade	19	92
Hall rifle	25	102
Hand firearms	2	284
grenades	4	198
	22	642
Hauberk	13	758
Head cover	19	92
Heavy artillery	2	366
Heliograph	14	78
Helmet	2	282
Helmets and helms	14	84
High explosive shrapnel	19	92
High-powered guns	13	551
High-tension fuses	12	201
Howitzer	2	364
Howitzers	13	562
Horse, military	14	401
Hotchkiss gun	18	56
Hyposcope	14	608
	25	104
Incendiary grenade	19	92
Infantry machine guns	15	117
Interchangeable parts	15	207
Illuminating grenade	19	92
Javelin	15	760
Jazeran	8	294
Kepi	16	374

Military Equipment — cont'd	Vol.	Page
Kidney dagger	8	391
Kit	16	463
Knuckle knife	19	93
Knapsack	16	477
Krag-Jorgensen .30-calibre rifle	25	104
Lance	16	689
Lee-Metford rifle	17	227
Lewis gun	18	56
Liberty motor	19	518
Light artillery	2	366
field guns	13	567
Liquid fire	17	497
fire projector	17	497
	28	673
Long-bow	2	284
Long guns	13	562
sword	26	154
Tom	17	640
Lorica	8	294
Lyddite	17	772
	22	70
Mace	18	43
Machine gun	13	563
	13	568
	18	55
	19	86
Browning	18	56
Colt	18	56
Gardner	18	56
Gatling	18	57
Hotchkiss	18	56
Infantry	15	117
Lewis	18	57
Madsen	18	57
Maxim	18	56
	18	455
Nordenfeldt	18	57
Schwarzloss	18	57
Vickers	18	56
Magazine gun	15	283
Magazine rifle	19	82
Maingauche	8	391
Male tanks	26	244
Mammoth powder	23	622
Maniple	18	217
Marten-Hale aeroplane bomb	19	60
Marten-Hale bombs	4	198
Maxim gun	18	455
Pompom	18	56
Mealed powder	13	558
Melinite	18	605
	22	70
Military costume	27	283
dirigibles	19	60
mines	9	28
railroads	19	78
shotgun	24	756
telegraph	19	90
terms	19	90
tractors	26	747
transportation	19	96
Mills bomb	13	459
Misericorde	8	391
Mons meg	13	557
Mortars	13	563
Motor transport	19	93
	19	97
Motors in warfare	19	518
Mountain artillery	13	563
guns	13	563
Munitions	19	86
	28	508
Musket	19	651
Needle gun	2	284
	20	39
	25	101
Nobel lighter	19	93
Nordenfeldt gun	13	561
	18	57

Military Equipment — cont'd	Vol.	Page
Nose fuses	12	201
Oblong projectile	22	641
Ocularium	14	84
Officers' uniforms	27	284
Ordnance	20	770
Oriflamme, or auriflamme	20	808
Ox-tongue dagger	8	391
Parachute grenade	19	94
Parrott gun	2	364
Pavise	21	429
Pavisor	21	429
Peabody rifle	21	438
Permissible explosives	19	94
Picket	22	67
Picric powders	19	94
	22	70
Pike	22	82
Pilum	2	82
	15	760
Pistol	25	101
Poison gas	22	282
Polemoscope	22	301
Plate armor	22	226
Progressive powder	19	94
Projectiles	22	640
elongated	22	643
expanding	22	644
gas	19	86
oblong	22	641
spherical	22	641
Projectiles for rifled pieces	22	643
Quadrant	19	94
Quoin	23	100
Rapid-fire guns	13	561
Rapier	11	113
	23	218
	26	154
Rampart grenades	22	642
Recoil cylinders	13	562
Renault-type tanks	26	244
Repeater	23	384
Rifle	25	101
Enfield	10	334
Hall	25	102
Krag-Jorgenson	25	104
Lee-Westford	17	227
magazine	19	82
Peabody	21	438
Ross	5	412
Springfield	3	528
	25	104
Ring gauge	19	94
Rodman gun	2	364
	13	556
Ross rifle	5	412
Sabre	26	154
tache	24	86
Schlager sword	26	154
Schwarzlose gun	18	56
Seacoast artillery	2	368
Searchlights	19	95
	24	488
Serpentine	13	558
Service uniforms	27	283
Shield	2	82
Shields	24	709
Shells	22	642
Shimosite	22	70
Shrapnel	22	643
Siamese arms	15	746
Siege artillery	2	367
Siege guns	13	563
Small arms	25	101
sword	11	113
Smokeless gunpowder	18	455
powder	25	102
	25	104
	25	136
Sniperscope	19	95

Military Equipment — cont'd	Vol.	Page
Snout-faced visors	22	226
Spangenhelm	14	85
Spear	25	365
Spherical projectiles	22	641
shells	22	642
Spider helmet	14	85
Sprengle explosives	19	95
Springal	25	454
Springfield rifle	3	528
	25	104
Stiletto	8	391
	25	648
Stokes trench mortar	19	95
Supply train	11	729
Supply railways	26	51
Sword	2	282
	11	113
	26	153
Tanks	25	663
	26	243
	28	329
female	26	244
male	26	244
Renault-type	26	244
whippets	26	244
Tent	26	436
Thermit	19	95
	26	525
37-millimeter gun	18	56
Thorax	8	294
Timbre	14	84
Tin cups	19	95
Train des equipages	11	729
Traversing gear	19	96
Traveling trunnion beds	19	96
Trench dump	19	96
Tractors, military	26	747
Trip	19	96
Tripping piece	19	96
Triton	19	96
Two-handed sword	26	153
Uniform	11	729
	27	283
	27	284
Véry lights	19	96
Voulge	3	702
War lance	25	366
Whippet tanks	26	244
Whitworth cannon	22	643
Wire entanglements	29	411
Wireless telegraphy	26	345
Wireless telephony in aerial service	26	390
Zeppelins	1	187
	19	60

Military Education and Training

	Vol.	Page
Army field engineer school	2	301
field service school for medical officers	2	302
medical school	2	291
school of the line	2	301
service schools	2	303
signal school	2	302
signaling	24	802
staff college	2	301
war college	2	300
Artillery schools	2	369
Cadet	5	132
Contour	7	593
Department of military training, Japan	15	702
Discipline	9	152
Ecole militaire	19	67
Ecoles préparatoires d' Enfants de Troupe	11	727
Education, military	19	67
Australia	2	616
Austria	2	627

Military Education and Training — Cont'd	Vol.	Page
England	13	328
	19	67
France	11	727
	19	67
	19	68
Germany	12	606
	19	68
Italy	15	482
	19	68
Japan	15	720
Russia	24	51
Switzerland	26	149
United States	2	303
	19	68
	27	509
Military education, Japan	15	723
training in State universities	25	525
Prytanée Militaire de la Flèche	11	727
Saint Cyr Military School	11	727
School of Musketry, Canada	5	412
Schools for non-commissioned officers, French	11	727
Staff colleges and schools	25	469
Standard of military education, Serbian	24	587
United States Military Academy	27	555
West Point	27	555

Military Strategy and Tactics

	Vol.	Page
Advance guards	1	161
Advanced posts	1	163
Angle of site	1	683
of traction	1	683
Approaches, military	2	98
Approach trenches	27	40
	27	41
Army and navy manœuvres	2	291
Artificial darkness	19	91
Asphyxiating gas, use of	2	407
	19	655
	22	282
	24	792
Assault	2	412
Assembly positions	19	91
Attack	2	519
Attrition	25	715
Barrage, tir de	3	275
	19	91
	27	41
	28	312
Barricade	3	278
Battle	3	343
Battlefield illumination	24	792
Bayonet combat	19	91
Bombardment	4	199
Bomb screen	19	91
Breach	4	445
Charge	6	305
Circumvallation	6	696
Coast artillery supports	19	91
Column	7	345
Combat	7	349
Combined attacks upon front and flanks	26	207
Combined tactics	19	84
Concentrated attack upon a weak point	26	207
Concentration	25	711
camp	7	478
Contour	7	593
Curtain fire	3	275
	19	91

Military Strategy and Tactics — cont'd	Vol.	Page
Curved fire	19	91
Defensive shooting tactics	26	207
Delaying actions	19	92
Deployment	19	92
Detachment	9	16
Distributed fire	15	117
Encampment	10	314
Enclosed trench	24	791
Enfilade	10	334
Engagement, military	10	334
Epaulement	10	411
Escalade	10	489
Esplanade	10	505
Evolutions, military	10	613
Feint	11	97
Files	19	92
Fire control	13	552
direction	19	92
discipline	19	92
superiority	19	92
Firing for effect	19	92
step	27	42
trench	27	41
First stage defense	26	210
Flank	11	334
Flank guard	11	334
Flying column	11	407
Fourth stage defense	26	211
Gas attacks	19	92
methods of	22	283
Gas shell attack	22	282
Gunnery	6	305
	13	550
Gun strategy	13	550
tactics	13	550
Holding attack	19	92
Infantry against artillery	15	118
against cavalry	15	118
attack	15	118
co-operation with other arms	15	117
Last stage defense	26	211
Lateral communications	19	93
Liaison	19	93
Line	19	93
of circumvallation	19	93
of communication	19	93
of countervallation	19	93
Listening posts	19	93
Machine-gun tactics	18	57
Military science, development of	19	81
Musketry	19	652
Night assault	19	93
operations	19	93
Obstacles	19	70
Offensive tactics	26	207
Orientation	19	94
Outposts	1	163
Outward flank	19	94
Oversea operations	19	94
Patrols	1	163
	21	405
Pickets	1	163
	22	67
Pioneer	22	105
Platoon exercises	22	236
Poison gas	22	283
Position in readiness	19	94
of deployment	19	94
Preliminary artillery position	26	208
Profile of trenches	27	41
Reconnaissance	23	271
	25	714
Reserve trenches	27	41
Retreat	23	436
Searching fire	19	95

Military Strategy and Tactics — cont'd	Vol.	Page
Second principal artillery position	26	209
Second stage defense	26	211
Sharp shooters	24	662
Siege	24	789
attack conditions of	24	789
batteries, sites for	24	789
first parallel	24	790
force	24	790
second parallel	24	790
simultaneous work	24	790
third parallel	24	790
Square	25	462
Strategic key	26	143
Strategy	2	346
	25	711
Support trenches	27	41
Tactical pursuit	19	95
Tactics	2	346
	25	712
	26	206
of infantry	19	83
of position	19	95
Tactics of the Three Arms	19	84
Tactics, order	26	208
Theatre of operations	19	95
Third stage defense	26	211
Trenches	27	39
Trench for fire through and over the parapet	27	41
warfare	15	119
Turning movement	26	206
	26	208
Types of communicating trenches	27	42
Unit fire	15	117
War of positions	25	715
Waves of assault	29	117

Military Institutions and Organizations

	Vol.	Page
Aldershot camp	1	354
Army and Navy General Hospital	2	291
Army and Navy Union	2	292
Army schools	2	300
Army Field Engineer School	2	301
Army Field Service School for Medical Officers	2	302
Army School of the Line	2	301
Army Staff College	2	301
Army War College	2	300
Army Service Corps, British	2	302
Army Service Schools, United States	2	303
Army War College Board	4	89
Artillery Company, The Honorable	2	360
Artillery Company, The Ancient and Honorable	2	369
Artillery corps	2	369
Fetiales	14	111
Gentlemen-at-Arms	12	403
Golden Collar, Order of	14	165
Hôtel des Invalides	14	436
Imperial Service Order	14	723
Jefferson Barracks	16	5
L'Ecole Polytechnique	19	68
Legion of Honor, French Order of	17	244
Leopold, Order of	17	306
L'Orphelinat Heriot	11	727
Madison Barracks	18	101
Medal of Honor Legion	18	531
Merit, Order of	18	675

Military Institutions, etc. — cont'd	Vol.	Page
Military Academy at West Point	2	300
	19	68
	27	555
service institutions of the United States	19	86
Montesa, Order of Our Lady of	19	402
National War Garden Commission	11	442
Plattsburg Barracks	22	240
Polytechnic school, Paris	19	68
Red Branch, Knights of	14	166
Royal Military Academy, Austria	19	67
Royal Military College, Canada	5	412
British	19	68
Saint Cyr	19	68
	24	127
Soldiers' homes	25	238
Samurai	15	660
	24	229
State guard	19	101
State militia	19	101
Theresa Military Academy	19	67
United States Military Academy	2	300
	27	555
United States Soldiers' Home	25	238
Upper Cadet School	19	68
Victoria and Albert, Royal Order of	28	74
Victoria Cross	28	74

Military History

GENERAL

	Vol.	Page
Aerial operations in European War	28	451
Archery	2	167
Armed neutrality	2	266
Austerlitz, battle of	6	139
Ballista	3	82
Ballista	3	82
Battle of Arbela	6	138
of Clontarf	10	232
of Crecy	13	557
of the Granicus	6	138
of Hohenfriedberg	6	139
of Lepanto	25	59
of Rhodes	13	557
Bows and arrows	4	367
Brassards	4	419
Brassarts	4	419
Brevet	4	473
Brigandine	4	536
Cavalry	6	140
Chateau-Thierry aerial operations at	28	457
Condottieri	7	483
Decisive battles of the world	28	714
Dresden, battle of	9	327
Eisenhut	14	85
European War, historical introduction	28	239
Flintlock	11	358
	25	101
Galea	14	84
Gorgerin	14	84
Gorget	14	84
Gunpowder, adoption of	14	280
Hand culverin	25	101
Hindenburg Line	5	97
	28	292
Historical introduction to European War	28	239

Military History—cont'd	Vol.	Page
Hospitals, military	14	431
field	14	426
Hussars	14	527
Javelin	15	760
Khaki	16	389
Lancer	16	690
Legion	17	244
Legion, Theban	17	244
Long-bow	4	367
Marengo, battle of	6	139
	18	277
Matchlock	25	101
Mercenaries	18	655
Mentonière	14	84
Meuse-Argonne aerial operations	28	457
Middle Ages, wars of	28	713
Modern warfare	28	714
Pikeman's Pot	22	228
Plate armor	22	226
Camail and Jupon Period (1360–1410)	22	226
Half armor period from 1600)	22	227
Maximilian armor (1425–1600)	22	227
Studded and splinted period (1335–60)	22	226
Surcoatless period (1410–30)	22	226
Tabard period (1430–1500)	22	227
Transition period (1500–25)	22	227
Platinum in the Great War	22	231
Reinforced chain-mail	22	226
Renegade	23	376
Saint Mihiel aerial operations	28	457
Salade	14	85
Self-bows	4	367
Sling	25	98
Stipendaries	18	655
Succession wars	25	782
Taces	22	226
Thirty Years' War	14	281
	15	117
Trajan's Wall	26	766
Uhlans	27	253
Union bows	4	367
Ventail	14	84
Visor	14	84
Wall of China	11	515
War, European	28	259
European, aerial operations	28	451
Wars of the world	28	712
decisive battles	28	714
early	28	712
Middle Ages	28	713
modern	28	714
Roman	28	713
principal	28	714
Waterloo, battle of	29	71
Wheelock musket	25	101
Wounded soldiers, pioneer work in care of	14	431
World War	13	355
	28	259

UNITED STATES

Military History—cont'd	Vol.	Page
Amelia Court House	13	137
Amendment to the Selective Service Law	24	537
American aces	28	457
air casualties	28	457
Civil War	11	82
	13	352
militia	19	100
Revolution	11	81
	14	242
	14	284
	23	449
	27	330
diplomatic conditions during the war and the peace negotiations	27	333
military events	27	330
troops in Russia	28	503
Andersonville	1	662
Antietam, the battle of	2	27
Anti-rent rebellion	27	542
Appomattox Court House	2	93
	13	137
Arkansas Post, battle of	2	260
	11	503
Army of Cuban Pacification	18	290
Army of the Cumberland	25	685
of the James	21	668
of the Potomac	7	10
	21	667
	21	508
Army of the United States	27	509
of the West	16	327
United States, statistics of	27	515
Army Medical Corps, United States, expansion during World War	18	548
Aroostook War	4	331
	5	418
Arrowfield Church, engagement at	26	132
Autossee, battle of	2	668
Averasboro, battle of	24	326
Bacon's Rebellion	3	24
	3	26
	3	556
	13	362
Banks' retreat to Alexandria	24	81
Barbary Powers, United States wars with	3	232
Barbary War, The	27	540
Battle among the clouds	3	345
	14	363
Bayard of the Revolution	17	109
Bear Flag Revolt	3	379
	12	59
Beaver Dams, battle of	3	399
Bedford Minute Men	11	312
Bennington, battle of	3	521
Bentonville, battle of	3	529
	24	327
Berry's Ferry, engagement at	25	146
Beverly's Ford	3	603
Big Bethel	3	692
Big Black River	3	692
Black Cockade	4	33
Black Hawk War	4	35
	16	183
Bloody Angle	13	137
Bluffs, battle of	6	455
Border War	4	268
Boston Massacre	1	125
	4	301
Boxer War	4	368
	27	544
Boydton Road, battle of	13	753
Braddock's defeat	6	383
	7	292
Brandy Station, battle of	11	343
Brandywine, battle of	4	414
Breed's Hill	4	461
Broad Seal War	4	567
Bulacan	4	715
Bull Run, first battle of	5	9
	11	325
	11	668
Bull Run, second battle of	5	11
	11	325
	11	668
Bunker Hill	5	25
	11	312
Cambridge farms	17	339
Camden, battle of	5	256
Campaign of 1777	27	330
of 1778	27	330
of 1863	27	412
of the Army of the Cumberland	7	14
of the Mexican War	18	738
Camp Alleghany	5	271
Camp Bartow	5	272
Campbell's Station, Tenn.	5	282
Capture of Charleston	27	331
Carnifex Ferry	5	639
Carthage, battle of	5	683
Cary Rebellion	5	691
Cedar Creek, battle of	6	161
Cedar Run, battle of	6	163
Cedar Mountain, Battle of	6	163
Cerro Gordo	6	226
Champion's Hill, battle of	6	272
Champlain, Lake, battle of	6	274
Chancellorsville, the battle of	6	278
Chantilly, battle of	6	292
Charles City Crossroads, battle of	12	714
Charleston, S. C., attacks on	6	332
Chattanooga, battle of	6	356
	7	15
Chateauguay River	6	350
Chemung, battle of the	6	409
Cherry Valley massacre	6	419
Cherokee War	7	293
Chickamauga, battle of	6	451
Chickasaw Bayou, battle of	13	136
Chippawa, battle of	6	562
Chrystler's Farm, battle of	6	650
Civil War	1	516
	3	485
	19	758
	23	445
	27	511
	27	319
cause of	27	403
War in America	7	6
War, closing campaigns of	27	413
War pensions	21	547
Cloyd's Mountain, battle of	7	136
Cold Harbor, battle of	7	236
Colonial wars in America	7	289
Colorado War, The	27	544
Confederacy	3	485
Confederate army	2	28
defense at Fort Darling	23	506
losses	7	19
records	7	19

Military History—cont'd	Vol.	Page
States of America...	7	489
Congressional medal of honor awards.....	28	669
Conscription	7	544
Conscription Bill, 1863..	9	293
Bill, 1917.....	9	293
Continentals	7	589
	27	511
Continental Army.....	7	589
Conquest of Canada....	27	372
Contreras	7	600
Contreras, battle of.....	7	600
Corinth, advance on, and battle of.....	7	692
Corpus Christi.....	8	16
Corregidor (Philippines)	8	19
Cost of military establishment, 1791-1914 ...	27	517
Crampton's Gap, battle of	25	305
Craney Island, battle of	8	158
Crazy Horse.....	8	168
Creedmoor	8	174
Cross Keys, battle of..	8	237
Crown Point, N. Y.....	7	293
	8	248
Cumberland, Army of the	8	298
Cumberland Gap.....	8	298
Dabney's Mill and Armstrong's Mill, battle of	13	773
Dallas, Ga., battle lines at	8	417
Dalton, Ga., military operations at.....	8	423
Davis' Bridge, battle of.	13	754
Decisive battles of the Revolution	27	331
Delaware breakwater...	3	15
Deep Bottom, Va., battles at.....	8	576
	21	668
Derne expedition.....	8	714
	9	518
Detroit	5	133
Detroit, siege and capture of.....	9	31
Dinwiddie Court-House and White Oak Road, battle of.....	9	131
Dorchester Heights.....	9	264
Dorr Rebellion	9	268
	27	542
Draft	27	422
Draft Law.....	24	535
Draft riots.....	9	291
	27	543
Drafts	9	292
Dranesville, battle of...	9	311
Drewry's Bluff, battle of	9	332
	11	497
Du Quesne	7	293
Dummer's War.....	9	398
El Bracito (N. M.), battle of.....	10	43
El Caney.....	10	43
Elkhorn Tavern, Ark...	7	9
Eltham's Landing (Va.). engagement at.....	29	207
Emuckfaw and Enotachopco, battles of.....	10	310
Erie, Lake, battle of....	10	476
Espionage Act of 1917..	10	504
Eutaw Springs, battle of	10	586
Ezra Church, battle of..	10	689
Fair Oaks and Darbytown Road, engagement at	10	714
Fair Oaks, battle of....	21	509
	16	186
Fair Oaks Seven Pines, battle of.....	10	715
Fallen Timbers, battle of	10	733
Farmville and High Bridge, engagements at	11	40
Fenian troubles.....	11	116
	27	543
Final campaign against Richmond	23	506
First naval battle between American and British forces.....	22	239
Fishers Hill, battle of..	11	288
Five Forks, battle of...	11	304
Fleetwood, battle of....	11	343
Flying corps activities in Europe.....	27	553
Flying corps casualties in the World War...	27	573
Food administration....	11	444
Forrest's cavalry.....	11	494
Fort Ann.....	11	496
Blakely, siege and capture of.....	11	496
Craig, battle of.....	27	656
Darling, attack on..	11	497
Dearborn	11	498
Denonville	11	505
Donelson	11	499
	11	502
Du Quesne.....	11	499
Edward	11	499
Erie	11	500
Fisher	11	500
Gaines	11	501
George	11	501
George, battle of...	11	501
George and William Henry	7	293
Griswold, massacre of	11	501
Hamilton	11	502
Hancock	11	502
Harrison, battle of.	11	502
Henry	11	502
Hindman, battle of.	11	503
Jackson	11	503
Lee	11	504
Lidius	11	500
McAllister	11	504
McHenry	11	504
Macon	11	504
Meigs	7	66
	11	505
Mercer	11	505
Miffin	11	505
Mims, Ala., massacre of.....	11	505
Monroe	3	569
	11	505
Morgan	11	501
Moultrie	11	505
Necessity	11	505
Niagara	7	293
	11	505
Oglethorpe	11	506
Ontario	7	293
Oswego	7	293
Peter Schuyler.....	11	496
Pickens	11	506
Pillow	11	506
Pulaski	7	8
	11	506
Saint Philip.....	11	503
Sam Houston.....	11	507
	24	233
Sill	11	508
Stanwix	11	508
Stedman, assault on	11	508
Sumter	7	6
	11	509
	27	410
William Henry.....	11	513
Wagner	11	510
Washington	11	511
Wayne	11	511
Franklin, battle of.....	12	14
	19	714
Frazier's Farm, battle of	12	714
Fredericksburg, battle of	12	39
Frenchtown, Mich., battle of.....	12	86
Fries' Rebellion.....	1	417
	12	109
	27	540
Front Royal, engagement at.....	12	122
Frontenac's expedition..	7	291
Gabriel's Insurrection..	12	215
Gaines' Mill, battle of..	12	227
Galveston, military and naval operations at...	12	258
Gauley Bridge.....	12	341
Generals commanding the Army of the United States.....	27	516
Germantown, battle of..	12	504
Geronimo	12	623
Gettysburg, battle of...	12	628
Glendale, battle of.....	12	714
Globe Tavern, battle of.	12	718
Gloriella, battle of.....	12	719
Gnadenhutten, massacre	12	735
Goldsboro, engagement at	13	31
Goliad (Texas)	13	38
Governor's Island.....	13	98
Grand Army of the Republic	13	122
	24	517
Great Bridge, Va., battle of	13	169
Great Meadows.....	7	292
Great Meadows, Pa., engagement at	13	358
Great Swamp fight.....	23	469
Green Mountain Boys..	13	425
	26	610
	28	27
Green Springs, Va., battle of.....	13	426
Griswoldville, battle of.	13	483
Guilford Court House, battle of.....	13	535
Guntown, battle of.....	13	574
Haldimand incident, The	28	28
Hampton's Legion.....	13	668
Hanging Rock, battle of	13	677
Hanover Court House, engagement near.....	13	683
Hanover, Pa., cavalry action at.....	13	683
Harrisonburg, engagement near.....	13	731
Harlem Heights, battle of	13	710
Harper's Ferry.....	7	7
	7	12
	13	721
Hartsville, engagements at	13	743
Hatchie River, battle of	13	754
Hatcher's Run, battle of	13	753
Havana	7	294
Haw, battle of the.....	13	768
Hawes' Shop, cavalry engagement near.....	14	5
Haymarket massacre...	1	451
	14	20
Helena, battle of.....	14	77

Military History—cont'd	Vol.	Page
Hickey Plot	14	168
Hobkirk's Hill	13	750
battle of	14	305
Holly Springs	14	320
Honey Hill, battle of	14	356
Horseshoe Bend	14	416
	15	575
Important military operations of the United States	27	516
Indian wars	27	511
pensions	21	547
Ingle's Rebellion	7	290
Irish Brigade	18	476
Iroquois War	7	290
Iroquois League	15	390
Iuka	15	560
Jackson (Miss.), battle of	15	585
siege of	15	585
Jamestown, Va.	7	289
Jeffersonton, engagement at	16	6
Jenkins Ferry, battle of	16	13
Jonesboro, battle of, and fall of Atlanta	16	203
Kansas border warfare	27	542
Kelly's Ford, engagements at	16	345
Kenesaw Mountain, battle of	16	352
Kernstown, battle of	16	379
second battle of	16	380
Kentucky campaign of 1862	21	608
Kieft's War	7	290
	16	406
King George's War	7	292
	16	435
King Hendrick War	7	293
King Philip's War	7	290
	19	706
Kinston, battle of	16	451
engagement at	13	31
Kip's Bay, battle of	16	454
Knoxville, siege of	16	501
Kolb's Farm, engagement at	16	511
Lacolle Mill, battle of	16	635
Lafayette at Barren Hill	16	649
Lafayette escadrille	28	452
Lake George	16	659
Lake George, battle of	7	292
Le Bœuf's War	7	293
Leggett's, or Bald Hill, battle of	17	243
Lee's Mill, engagement at	17	230
Lewisburg, battle of	17	336
Lexington and Concord, battles of	17	340
Lexington, siege of	17	340
Libby prison	17	345
Light Horse Harry	17	219
Little Rock, capture of	17	524
Longbridge, battle of	13	665
Long Island, battle of	17	638
Lord Dunmore's War	7	294
Loudon, Fort	17	671
Louisburg	7	293
	17	679
Lundy's Lane	11	500
battle of	17	739
McCausland's raid	18	22
McLemore's Cove, Ga., military operations at	18	77
Malvern Hill, battle of	18	172
Manasses, battle of	11	325
first battle of (Bull Run)	15	582
Gap, engagement at	18	194
March to the sea	13	136
	18	268
	24	324
Marines, United States	18	288
Marines' activities in France in 1918	18	290
Marion's Brigade	18	292
Marks' Mills, engagement at	18	301
Martinique	7	294
Maryland campaign of September, 1862	18	370
Mechanicsville, battle of	18	525
Medal of Honor	18	531
Medical organization in the United States Army, expansion during World War	18	548
Meridian (Miss.), expedition to	18	674
Mexican border emboglio	27	544
Mexican War, the	19	737
	23	444
	27	389
pensions	21	547
Middle Tennessee campaign	27	136
Middleburg, Aldie and Upperville, cavalry engagements at	19	40
Milford, engagements at	19	58
Mill Springs, battle of	19	114
Milliken's Bend, engagement at	19	126
Military events of the Civil War	27	410
Law of 1903	19	101
Militia	19	100
	27	510
Mine Run, campaign of	19	153
Minute men	19	215
Missionary Ridge	6	356
	7	15
	26	572
Mobile Bay, battle of	19	280
Molino Del Rey, battle of	19	326
Monmouth, battle of	19	361
Monocacy, battle on the	19	362
Monterey, battle of	19	402
Morgan's raid into Indiana and Ohio	19	455
Mormon disturbances	19	464
	27	541
Mosby's Partisan Rangers	19	494
Murfreesboro, battle of	25	685
Nashville, campaign and battle of	19	714
Nat Turner's Rebellion	19	719
	27	541
National Defense Act of 1916	9	623
Guard	19	101
	27	511
Naustic Tribe, war with	7	289
Neches, battle on the	16	183
New Bern, operations at	20	112
New Creek (Keyser), engagements at	20	120
New Market, battle of	20	147
New Netherlands	7	290
New Orleans, campaign and battle of	20	158
defense of	15	575
New Sweden	7	290
Newtown, battle of	20	293
Nineveh, Va., cavalry engagement at	20	362
North Anna, operations on	20	411
Oak Grove, battle of	20	527
Ohio, Army of the	20	621
Olustee, or Ocean Pond, battle of	20	671
Opequon, battle of the	20	699
Operations of the Second American Army in France	28	502
Oriskany, battle of	20	812
Oswegatchie, Fort	21	39
Oswego, Fort	21	39
Ox Hill, battle of	6	292
Pamunkey	21	222
Parker's Cross Roads, engagement at	21	330
Patriot War	27	541
Paxton Boys	3	685
Pea Ridge	7	9
	21	437
Peach-tree Creek, battle of	21	448
Peacock and Epervier, battle of	21	449
Pemberton's Army	7	13
Peninsula campaign	27	411
Peninsula campaign of 1862	21	508
Pennamite wars	21	516
Pensacola Bay in the Civil War	21	544
Pequot War	7	290
	18	401
	19	706
Perryville, battle of	7	10
	21	608
Pershing's report	28	490
Petersburg and Richmond, siege of	21	669
Petersburg, military operations against	21	666
Philadelphia (Tenn.), military operations at	21	733
Philippine Insurrection	21	753
pensions	21	548
Piedmont, battle of	22	72
Pine Bluff, engagement at	22	98
Pine Mountain, engagement of	22	99
Pittsburgh	11	499
Landing, battle of	22	134
Point Pleasant, battle of	22	281
Poison Springs (Ark.), engagement at	22	284
Pontiac's War	7	294
	22	350
Poplar Spring Church, battle of	22	363
Port Gibson, battle of	22	378
Port Hudson	7	13
siege of	22	379
Republic, battle of	22	383
Royal	7	8
Royal Bay, battle of	22	385
Royal Ferry, engagement at	22	386
Royal, S. C.	7	291
	22	384
Potomac, Army of the	14	363
	22	449
Potomac, Society of the Army of	22	449
Powhatan Confederacy	7	290
Prairie Grove, battle of	22	507
Presqu' Isle	7	293
Prestonburg, engagements at and near	22	561

Military History—cont'd Vol. Page

Princeton, N. J., battle of 22 585
W. Va., engagement at 22 585
Prisoners of war taken by Americans in World War 28 509
Quebec 7 293
Queen Anne's War..... 7 291
Quebec, siege of 23 76
Rainbow Division..... 28 342
Rappahannock Station, battle of..... 23 219
Raymond, battle of.... 23 240
Ream's Station, battle of 23 260
Red River campaign... 23 283
Red Stone, Old Fort... 23 285
Relative strength of the United States Army to the population..... 27 516
Report on American Expeditionary Forces in World War by General Pershing 28 490
Resaca, battle of..... 23 408
de la Palma, battle of 23 409
Return of troops to United States from France 28 503
Revolt in New Mexico.. 27 542
Revolutionary War 4 333
Revolution, causes of.. 27 327
Rhode Island, battle of 23 471
Rich Mountain, battle of 23 488
Richmond, battle of.... 23 503
Kilpatrick's expedition to..... 23 504
Sheridan's raid on the communications with 23 505
Union campaign against 23 505
Ringgold Gap, battle of 23 529
Romney (W. Va.), engagements at..... 23 675
Rough Riders 23 720
Russellville, engagements at 23 788
Sabine Cross Roads, battle of..... 24 81
Pass, engagement at 24 84
Sacketts Harbor, attacks on..... 24 89
Sailor's Creek, battle of 24 119
Saint Albans, Confederate raid on..... 24 121
Charles, engagement at 24 125
Marks, capture of... 15 575
Mary's Church, cavalry engagement at 24 154
Saltville, engagement at 24 208
San Jacinto, battle of.. 16 183
24 240
Sand Creek massacre... 24 251
Sanders' raid into East Tennessee 24 254
Saratoga, battles of.... 24 293
Savage Station, battle of 24 322
Savannah to Goldsboro, Sherman's campaign 24 324
operations against.. 24 324
Scarey Creek, engagement at 24 355
Secessionville, battle of. 24 509

Military History—cont'd Vol. Page

Selective Service Law... 24 535
execution of..... 24 537
Selma, battle of..... 24 545
Seminole War 24 547
Indians, overthrow of 15 575
Service Men of Spanish-American War..... 24 605
Seven Days' battles.... 7 11
18 23
24 608
Seven Pines 13 668
battle of..... 21 509
Seven Years' War..... 7 292
Shay's Rebellion..... 17 452
24 668
27 539
Shenandoah Valley, military operations in. 24 692
Shepherdstown, engagements at and near 24 698
Ford, engagement at 24 699
Sherman's March to the Sea 13 136
24 324
Meridian expedition 13 136
Shiloh, battle of..... 24 711
Siege of Petersburg and Richmond 21 669
Skinners 25 76
Slaughter's Mountain, battle of..... 6 163
Slave Insurrection, Louisiana 27 540
Smithfield, engagement at 25 131
Smyrna Camp Ground, engagement at 25 140
Snicker's Ferry, engagement at..... 25 146
Soldiers' Homes 25 238
Somerset (Ky.), engagement at 25 251
South Mills, battle of.. 25 304
Mountain, battles of 25 305
Southern wars..... 7 291
Spanish-American War. 8 282
13 354
23 445
27 439
pensions 21 548
Spottsylvania Court House, battles of..... 25 445
Spring Hill, engagement at 25 452
Springfield (Mo.), military operations at.... 25 458
Stephenson's Depot (Carters Farm), engagement at..... 25 622
Stirling's Plantation on Bayou Fordoche, engagement at..... 25 654
Stone Ferry, battle of.. 13 665
25 684
River, battle of..... 25 685
Stoneman's Macon raid. 25 689
raid from East Tennessee into Southwestern Virginia.. 25 690
raid in East Tennessee, Southwest Virginia and Western North Carolina 25 691
Virginia raid..... 25 692
Stony Creek, battle of.. 25 695
Point 25 696
Streight's raid from Tuscumbia 25 727

Military History—cont'd Vol. Page

Stuarts' raid to Chambersburg 25 748
ride around the Army of the Potomac on the Chickahominy 25 748
Suffolk (Va.), operations around and siege of.. 25 791
Surrender of the Army of Northern Virginia at Appomattox Court House 11 40
Swift Creek, engagement at 26 132
Talladega, battle of.... 26 226
Tallahatchie, battle of.. 26 227
Tennessee 26 427
Army of the..... 26 432
Thames, battle of the.. 13 731
26 487
Thompson's Station, battle of 26 581
Three Rivers..... 15 400
26 594
Ticonderoga 7 293
26 610
Ticonderoga, expedition against 26 610
Tin Horn War..... 27 543
Tippecanoe, battle of... 19 27
26 643
Todd's Tavern, engagements at..... 26 666
Tohopeka 15 575
Toledo War 26 675
27 541
Totopotomoy 21 222
Treaty of Fort Stanwix 11 509
Treaty of Peace of 1848. 18 739
Trevilian raid 27 50
Trevilian Station, battle of 27 50
Tripolitan War..... 27 76
Tuckaubatche, battle of. 27 128
Tullahoma campaign... 27 136
Tupelo, battle of..... 27 166
Turners Gap, battle of.. 25 306
Tuscarora War 7 291
Union Army..... 2 28
losses 7 19
United States, Civil War, cause of..... 27 403
important military operations 27 516
Revolution, causes of 27 327
Diplomatic conditions during the war and the peace negotiations 27 333
War of 1812, causes of 27 370
War with France... 27 367
War, Mexican..... 27 389
War with Spain.... 27 439
wars of..... 27 539
Valley campaign..... 15 582
Valverde, battle of..... 27 656
Vancouver Barracks.... 27 679
Vaught's Hill, engagement at..... 27 701
Venango 7 293
Vera Cruz affair..... 27 544
capture of 28 11
Vicksburg campaign ... 7 13
military operations against and siege of 28 61
Victory bread 11 444
Walker's expeditions... 27 543

Military History—cont'd	Vol.	Page
War of 1812	1	512
	11	86
	12	242
	13	350
	13	739
	18	658
	23	444
	27	314
	27	372
	27	540
causes of	27	370
pensions	21	547
War with France	27	367
	27	540
with Germany and Austria	27	544
of Jenkins' Ear	7	291
of the Revolution	27	311
in the Philippines	27	512
path	28	682
	27	439
with Spain	14	342
	27	511
Washington barracks	28	797
Washington (D. C.), campaign against and burning of	28	794
Washigton (D. C.), Early's attempt on	28	795
Washington Life Guard	11	312
Washita, battle of	28	799
Waynesboro (Va.), battle of	29	122
Welfare work	28	511
West Point, engagement at	29	207
graduates killed in the World War	29	207
West Virginia campaign of 1861	29	215
Whiskey Insurrection	15	400
	17	220
	29	260
Rebellion, the	27	540
White Oak Swamp, battle of	12	714
Wilderness, battle of the	13	137
	29	312
Wilmington, capture of	29	354
Wilmot Proviso	18	739
	29	355
Wilson's Creek, battle of	29	368
raid from Chickasaw to Selma, Ala., and Macon, Ga.	29	368
Winchester, first battle of	29	374
second battle of	29	374
military operations at and near	29	373
Window Tax War	27	540
World War	11	506
	27	325
	28	259
World War, official account of America's participation in	28	490
Wyoming Massacre	5	79
	5	83
Wytheville, military operations at	29	592
Yazoo City, military operations at and near	29	618
Pass and Steele's Bayou expeditions	29	619
Yellow Bayou, engagement at, and Banks' retreat from Alexandria	29	623

Military History—cont'd	Vol.	Page
Yemassee War	7	291
York, battle of	29	643
Yorktown, siege of, in Civil War	29	645
siege of, in the War of the American Revolution	29	645
See also **History; World War.**		

BRITISH EMPIRE

American Civil War	13	199
American War of Independence	13	195
Anzac	2	50
Aroostook War	13	748
Assize of arms	2	423
Austro-Prussian War of 1866	13	199
Bagdad railway	3	39
	13	343
Baron's War	3	273
Battle of Bosworth (1485)	13	181
Battle of Crecy	13	180
Battle of Hastings	13	177
Battle of Ridgeway	11	116
Battle of Saint Albans (1485)	13	181
Black bottle quarrel	5	601
Watch	8	39
	22	145
Boer War	25	276
Boyne, battle at	15	318
British army	13	328
	29	634
Legion	4	562
Bucharest, Treaty of	4	662
	13	345
Calais, siege of	13	557
Cameron Highlanders	5	265
Cameronian regiment	5	265
Canadian army corps in France	5	413
	5	414
expeditionary force	5	413
Mounted Rifles	28	325
Chateauguay River	5	350
Civil War of 1642	19	99
Coldstream Guards	7	241
Conquest of Canada	27	372
Crimean War	8	195
	13	198
	27	191
Culloden	8	295
Danish War of 1864	13	199
Dartmoor massacre	8	482
Defenders	8	586
	14	166
Diplomatic Revolution of the 20th Century	13	343
Drummossie Moor	8	295
Enfield	10	334
English aces	28	459
militia	19	98
Ethendum, battle of	10	533
Falkirk, battle of	10	730
Fenian raids	5	411
	11	116
Fifteen decisive battles of the world	11	188
French wars of the 18th century	13	193
General Conference	13	343
Great Britain's fight with France for North America	5	311
Great Britain and the World War	13	342
Great Britain, wars of	13	193
	13	342

Military History—cont'd	Vol.	Page
Great Rebellion	13	184
Hastings, battle of	24	563
Havildar	13	767
Hedjaz	13	343
Hooge	5	413
Hounslow Heath	14	443
Jameson raid	15	608
	25	276
Jenkins' Ear, War of	16	13
Kett's Rebellion	16	384
Kilkenny, Catholic Confederation of	14	166
King William's War	7	291
Ladies from Hell	22	145
Ladysmith	25	277
Lens	5	413
Light Brigade, Charge of	6	306
Martello towers	18	332
Military Service Act	5	414
Morocco question	13	343
Mutiny Act	13	329
Norman conquest	19	98
Omdurman	13	343
Orangemen	14	166
Passchendaale	5	413
Peasant revolt of 1381	13	180
Peninsular War	21	510
Pennamite Wars	21	516
Prestonpans	7	647
	22	561
Pretoria	22	562
Purchase system	23	25
Quebec	7	294
Quintain	23	97
Rapparees	14	166
Rawlinson Feat	28	356
Rebellion of April, 1916	25	41
Relief of Lucknow	5	277
Restoration of 1660	19	99
	23	421
Revolt of 1916 (Dublin)	9	371
Revolution of 1399	13	180
Revolution of 1689	13	191
	13	230
Revolutionary War	13	195
Ribbon Confederation	14	166
Ribbonmen	14	166
Riel's Rebellion	23	514
Roses, Wars of the	23	700
Russo-Turkish War	13	199
	24	62
Senecas	7	291
Senlac, battle of	24	563
Seven Years' War in Europe	13	192
Smokeless powder, earliest experiments with	25	136
South African War	25	276
Spanish Armada	2	263
Standard, battle of the	25	478
Territorial Forces Act	13	631
Territorial and Reserve Forces Act	13	330
Transvaal	27	11
Valcartier	5	413
Vimy	5	413
War of the Austrian Succession	13	191
Wars of the Roses	11	190
	13	181
	23	700
War with Spain (1739)	13	191
Waterloo, battle of	29	71
Windsor Castle	6	8
Yeomanry	29	634
Yeoman of the Guard	29	634
Yorktown, siege of, in the War of the American Revolution	29	645
See also **World War.**		

Military History—cont'd Vol. Page

OTHER COUNTRIES

Adua, battle of..... 15 483
Algun, treaty of..... 15 728
Armagac War..... 2 265
Armatoles 2 265
Army corps of Napoleon. 19 82
Ataman 2 487
Athenian chares..... 6 305
Aurelian wall..... 2 554
Austria-Hungary and the World War 2 636
Ayacucho, the battle of. 2 683
Bashi-Bazouks..... 3 306
Battalions of death..... 28 380
Bazooks 3 306
Belle-Alliance, La..... 3 480
Bellegarde 3 482
Bersaglieri 3 579
Boche 4 142
Boxer movement..... 4 368
21 478
Brabançons 4 378
Bravi 4 422
Brazil War with Germany 4 429
Bushido 15 662
Calais, siege of..... 13 557
Cent-Gardes, Les..... 6 198
Cerro Gordo..... 6 226
Chabrais 6 241
Chæronea, battle of.... 6 243
13 374
Chillianwalla, battle of. 6 511
Cohors prætoria..... 22 502
Cohort 7 218
Communist insurrection, Paris (1848)..... 6 134
Paris, 1871..... 7 417
Contreras 7 600
battle of..... 7 600
Corporal, The Little.... 8 1
Cossacks 8 38
Crecy-En-Ponthieu, or Cressy 8 171
Crimean War..... 8 195
27 191
Cuba 7 301
8 280
Cynoscephalæ, battle of. 8 366
13 375
Danebrog 8 450
Dennewitz, Germany ... 8 685
Derne expedition 8 714
Dixmude 9 210
El Caney..... 10 43
Epigoni 10 421
Fontenoy, battle of.... 11 428
Fort De L'Ecluse..... 11 498
France and the World War 11 739
French aces..... 28 458
air casualties 28 457
Franco-German or Franco-Prussian War. 12 1
Francs-Tireurs 12 3
Gendarmes 12 367
German aces..... 28 459
Germany and the World War 12 611
Gravelotte, battle of.... 13 162
Helgoland 14 78
Heligoland 14 78
Hohenlinden 14 312
Heikautai, battle of.... 15 733
Iron corps 28 326
Italian campaign in the World War..... 28 383
Janizaries 15 613
Japan-China War..... 15 729

Military History—cont'd Vol. Page

Japanese arms and armor 15 744
Japan in the World War 15 739
Legion, The Thundering 17 244
Leipzig, battles of..... 17 270
Lepanto, battle of..... 17 306
Lepanto, maimed soldier of 25 59
Liaoyang, battle of..... 15 732
Lisaine, battle of..... 17 502
Locrian War 17 374
Loezer circus..... 28 452
Lu-Shun-Kou 22 377
Majuba Day..... 25 276
Majuba Hill, battle of. 18 156
Malplaquet, battle of... 18 170
Mantinea, battle of..... 13 374
18 238
Marchfield, battle of.... 2 629
Marignano, battle of... 3 362
Marsic War..... 25 191
Mendigorria, battle of.. 7 688
Metz 18 735
Meuse 18 736
Mohács, battle of 14 507
19 291
Morro Castle..... 19 482
Mukden, battle of..... 15 733
19 551
Nations, battle of the.. 19 766
Old Guard, the..... 20 655
Oriental arms and armor 15 744
Pandoors 21 243
Pandours 21 243
Peking, the Siege in.... 21 478
Peloponnesian War..... 13 373
13 374
17 786
21 487
Peninsula War..... 21 510
Platæa, battle of..... 13 372
22 226
Port Arthur..... 22 377
fall of..... 15 733
siege of 15 731
Prætorian Guards 22 502
Prætorium 22 502
Reconcentrados 23 271
Richtofen's, Baron von, flying circus..... 28 452
Russian Red Guards... 24 51
Russo-Japanese War ... 15 258
15 725
15 728
Russo-Turkish War.... 24 62
Saghalien, subjugation of 15 735
Salamis, battle of..... 13 372
Sekigahara, battle of... 15 570
Sepoys 24 574
Seraskier 24 578
Seven Weeks' War..... 24 610
Years' War..... 24 611
Shaho, battle of..... 15 732
Social War, Roman.... 25 191
Sonora, campaigns in.. 25 259
Spahis 25 322
S. P. Q. R..... 24 75
Strelets 25 727
Testudo 26 455
Thunderbolt of Italy... 11 413
Tsing-tao (World War). 24 657
Turco-Italian War, 1911-12 ..... 27 175
Vera Cruz, capture of.. 28 11
Verdun 28 14
Volturno, battle of..... 15 459
28 177

Military History—cont'd Vol. Page

War of the Bavarian Succession 25 785
of the Austrian Succession 25 783
Wars of the Romans... 28 712
War of the Spanish Succession 25 782
Wars of the world..... 28 712
Waterloo, battle of..... 29 70
29 71
Yungay, battle of..... 9 541
See also **Engineering; Government and Political Science; History; Naval Science and History; Orders and Decorations; Societies and Organizations; Transportation and Communication and World War.**

Biographies

UNITED STATES

Ainsworth, Fred Crayton 1 274
Alden, Bradford R..... 1 352
Alger, Cyrus..... 1 394
Allen, Ethan 1 413
4 607
Alvord, Benjamin..... 1 460
Alvord, Henry Elijah... 1 460
Anderson, George B.... 1 659
Anderson, George Thomas 1 659
Anderson, Richard Henry 1 661
24 695
Anderson, Robert..... 1 661
Angel of the Battlefield, the 2 17
Anthony, Sister..... 2 17
Armstrong, John..... 2 285
Armstrong, Robert..... 2 286
Arnold, Abraham Kerns. 2 312
Arnold, Benedict..... 2 313
Arredondo, Marquis of.. 24 232
Asboth, Sandor (Alexander) 2 377
Ashe, John..... 2 385
Augur, Christopher Colon 2 541
Averell, William Woods. 2 674
Ayres, Romeyn Beck... 2 685
Babcock, Orville E..... 3 4
Bache, Hartman..... 3 15
Bacon, John Mosby.... 3 24
Badeau, Adam..... 3 32
Badlam, Stephen..... 3 35
Bailey, Joseph..... 3 50
Baird, Absalom..... 3 56
Baker, Edward Dickinson 3 59
Baker, James Heaton.. 3 60
Baldwin, Frank Dwight. 3 76
Banks, Nathaniel Prentiss 3 151
Barnard, John Gross... 3 204
Barnes, James..... 3 266
Barry, Thomas Henry.. 3 286
Barry, William Farquhar 3 286
Bartlett, William Francis 3 294
Barton, William..... 3 297
Bates, John Coalter.... 3 329
Baum, Friedrich..... 3 349
Bayard, George Dashiell. 3 361
Beal, George Lafayette. 3 376
Beale, Edward Fitzgerald 3 376
Beall, John Young..... 3 377

Biographies — cont'd	Vol.	Page
Beardsley, John Davis..	3	382
Beauregard, Pierre Gustave Toutant.....	3	395
Beaver, James Addams.	3	397
Bedel, Timothy.....	3	413
Bedford, Gunning.....	3	414
Bee, Bernard E.....	3	417
Bee, Hamilton Prioleau.	3	417
Beers, Nathan.....	3	430
Belknap, William Worth.	3	471
Bell, James Franklin...	3	475
Bell, James Montgomery.	3	475
Béndalou, Paul.....	3	502
Benteen, Frederick William	3	525
Benton, James Gilchrist	3	528
Bernard, Simon.....	3	569
Berry, Hiram George...	3	578
Biddle, Clement.....	3	685
Bigelow, John.....	3	696
Bigelow, Timothy.....	3	697
Bird, Charles.....	3	726
Birge, Henry Warner..	4	3
Birney, David Bell.....	4	8
Bisbee, William Henry..	4	11
Bixby, William Herbert.	4	28
Black, William Murray.	4	31
Blaine, Ephraim.....	4	52
Blair, Francis Preston, Jr.	4	53
Bland, Theodoric.....	4	61
Blenker, Louis.....	4	78
Bliss, Tasker Howard..	4	89
Blunt, James G.....	4	132
Blunt, Stanhope English	4	133
Bomford, George.....	4	202
Bonneville, Benjamin L. E.....	4	221
Bouquet, Henry.....	4	345
Bowers, Theodore S....	4	364
Bowman, Alexander Hamilton	4	366
Boyd, John Parker.....	4	373
Bradstreet, John.....	4	389
Bragg, Braxton.....	4	392
	25	686
Brannan, John Milton..	4	415
Brasher, Abraham.....	4	417
Brayman, Mason.....	4	423
Breck, Samuel.....	4	456
Breckinridge, Joseph Cabell	4	457
Brisbane, Albert Hall..	4	544
Brodie, Alexander Oswald	4	572
Brooke, John Rutter...	4	590
Brooks, John.....	4	595
Brotherton, Lieutenant.	28	453
Brown, Jacob.....	4	606
Brown, John.....	4	607
Buchanan, Robert Christie	4	661
Buell, Don Carlos.....	4	684
	7	9
Buffington, Adelbert Rinaldo	4	696
Buford, John.....	4	697
Buford, Napoleon Bonaparte	4	697
Burbridge, Stephen Gano	5	32
	24	208
Burgoyne, John.....	5	41
Burke, Jane.....	5	47
Burns, William Wallace.	5	62
Burnside, Ambrose Everett	5	62
	7	12
Burr, Edward.....	5	64

Biographies — cont'd	Vol.	Page
Butler, Benjamin Franklin	5	78
	7	8
	7	12
Butler, John.....	5	79
Butler, Matthew Galbraith	5	81
Butler, William Orlando.	5	83
Butt, Archibald Willingham	5	84
Butterfield, Daniel.....	5	87
Cadillac, Antoine de la Mothe	5	133
Cadwalader, George....	5	136
Cadwalader, John.....	5	136
Campbell, Douglas.....	28	452
Campbell, William.....	5	281
Campbell, William B...	5	281
Canby, Edward Richard Sprigg	5	490
Capron, Allen Kissam..	5	572
Capron, Allyn.....	5	572
Carleton, James Henry.	5	615
Carr, Eugene Asa.....	5	660
Carr, Joseph Bradford.	5	661
Carrington, Edward....	5	671
Carrington, Henry Beebee	5	672
Carter, Samuel Powhatum	5	679
Carter, William Harding	5	679
Casey, Silas.....	5	700
Casey, Thomas Lincoln.	5	701
Casler, John Overton...	5	705
Chaffee, Adna R.....	6	243
Chamberlain, John Loomis	6	260
Chamberlain, Joshua L.	6	261
Chase, William Henry..	6	346
Chassé, David Hendrick.	6	347
Cheatham, Benjamin Franklin	6	370
Chestnut, James.....	6	429
Chilton, Robert Hall...	6	513
Cist, Henry Martyn....	6	698
Clark, William Thomas.	7	45
Clarke, Elijah.....	7	46
Clarkson, Matthew.....	7	50
Cleburn, Patrick Ronayne	7	79
Clinton, Sir Henry.....	7	114
Clinton, James.....	7	115
Clous, John Walter.....	7	132
Coffee, John.....	26	227
Connor, Selden.....	7	534
Conrad, Charles M.....	7	535
Cooke, Philip Saint George	7	625
Coolidge, Hamilton.....	28	452
Cooper, James.....	7	635
Coppinger, John Joseph.	7	666
Corbin, Henry Clark....	7	679
Corcoran, Gen. M.....	25	791
Corse, John Murray....	8	23
Couch, Darius Nash....	8	91
Cox, Lemuel.....	11	315
Craik, James.....	8	151
Crawford, Samuel Wylie.	8	165
Crawford, William.....	8	166
Crittenden, George Bibb.	8	213
Crittenden, Thomas Leonidas	7	9
	8	214
	25	685
Crogham, George.....	8	220
Crook, George.....	8	226
Crosby, John Schuyler.	8	228
Crozier, William.....	8	253
Cullum, George Washington	8	296
Curtis, Samuel Ryan....	8	318

Biographies — cont'd	Vol.	Page
Custer, George Armstrong	8	335
Dahlgren, Ulric.....	8	394
Darke, William.....	8	478
Davidson, John Wynn..	8	505
Davidson, William.....	8	505
Davie, William Richardson	8	505
Davies, Henry Eugene..	8	506
Davis, George Whitefield	8	508
Davis, Jefferson.....	7	8
	8	509
Davis, Jefferson Columbus	8	511
Dayton, Elias.....	8	522
Dearborn, Henry.....	8	538
De Kalb, Johann.....	8	602
Dent, Frederick Tracy..	8	687
Denver, James W.....	8	698
De Russy, René Edward	8	716
Dickinson, John.....	9	84
Dix, John Adams.....	9	209
Dodge, Francis Safford.	9	220
Doniphan, Alexander William	9	257
Doolittle, Charles Camp.	9	260
Doubleday, Abner.....	9	275
Douglas, Henry Kyd...	9	279
Drayton, Thomas Fenwick	9	320
Duke, Basil Wilson....	9	390
Du Pont, Henry Algernon	9	411
Duryée, Abram.....	9	427
Dwight, Joseph.....	9	446
Dyer, Alexander Brydie.	9	450
Eagan, Charles Patrick..	9	473
Early, Jubal Anderson..	9	487
Eastman, Seth.....	9	513
Eaton, William.....	9	518
Edwards, Clarence Ransom	9	907
Ellsworth, Ephraim Elmer	10	258
Ewell, Richard Stoddert	7	14
	10	615
Ewing, Hugh Boyle.....	10	616
Eyre, Jehu.....	10	685
Fairchild, Lucius.....	10	718
Fannin, James W.....	11	10
Farnham, Ralph.....	11	43
Farnham, Roswell.....	11	43
Ferry, Orris Standford..	11	142
Field, Charles W.....	11	179
Fish, Nicholas.....	11	266
Fleury, François L. T..	11	350
Folsom, Joseph L.....	11	423
Folsom, Nathaniel.....	11	423
Foraker, Joseph Benson	11	439
	24	327
Force, Manning Ferguson	11	461
Forrest, Nathan Bedford	11	494
Forsyth, George Alexander	11	496
Forsyth, James William	11	496
Forwood, William Henry	11	526
Foster, John Gray.....	11	529
Fox, Henry Edward.....	11	564
Franklin, William Buel.	12	13
	24	81
Frelinghuysen, Frederick	12	57
Frémont, John C.....	12	58
	18	738
French, William Henry.	12	61
Fry, James Barnet.....	12	139
Funston, Frederick.....	12	175
Gage, Thomas.....	12	226

Biographies — cont'd	Vol.	Page
Gaines, Edmund Pendleton	12	227
Gansevoort, Peter	12	275
Garnett, Robert Selden	12	295
Garrard, Kenner	12	296
Gates, Horatio	12	336
Geary, John White	12	350
Geddes, James Lorraine	12	354
Getty, George Washington	12	627
Gibbs, Alfred	12	642
Gillem, Alvan Cullen	12	655
Gilmor, Harry	12	657
Gillmore, Quincy Adams	7	8
	7	15
	12	655
Gist, Mordecai	12	668
Glover, John	12	724
Gordon, George Henry	13	63
Gordon, John Brown	13	63
Gourgues, Dominique de	13	85
Granger, Gordon	13	132
Granger, Robert Seaman	13	132
Grant, Frederick Dent	13	134
Grant, Ulysses S.	7	8
	13	135
Greene, Christopher	13	428
Greene, Francis Vinton	13	428
Greene, George Sears	13	428
Greene, Nathaniel	13	429
Greenleaf, Charles Ravenscroft	13	436
Gregg, David McMurtie	13	442
Gregg, John Irvin	13	442
Gridley, Richard	13	468
Grier, William Nicholson	13	469
Grierson, Benjamin Henry	13	469
Griffin, Charles	13	470
Griffin, Simon Goodell	13	470
Grimes, Bryan	13	474
Grose, William	13	487
Hagood, Johnson	13	616
Hale, Nathan	13	634
Hall, Robert Henry	13	643
Halleck, Henry Wager	13	647
Halpine, Charles Graham	13	650
Hamblin, Joseph Eldridge	13	652
Hamilton, Alexander	13	654
Hamilton, Schuyler	13	659
Hammond, Samuel	13	665
Hampton, Wade	13	668
	27	51
Hancock, Winfield Scott	13	671
Hand, Edward	13	671
Harder, William Joseph	13	696
Hardie, James Allen	13	698
Harney, William Selby	13	719
Harrison, William Henry	13	730
	27	373
Hartranft, John Frederick	13	742
Hartsuff, George Lucas	13	743
Hascall, Milo Smith	13	749
Hastings, Francis Rawdon	13	750
Hatch, John Porter	13	752
Hawkins, Hamilton Smith	14	8
Hayes, Rutherford Birchard	14	18
Hayne, Isaac	14	21
Hazen, William Babcock	14	24
Heath, William	14	50
Hecker, Friedrich Karl Franz	14	61
Heintzelman, Samuel Peter	14	75
Heistand, Henry Olcot Sheldon	14	75
Henningsen, Charles F.	14	97
Henry, Guy Vernon	14	106
Herkimer, Nicholas	14	128
Herron, Francis Jay	14	150
Heth, Henry	14	160
Hickenlooper, Andrew	24	712
Hickey, Thomas	14	168
Higginson, Thomas W.	14	177
Hill, Ambrose Powell	14	186
	24	699
Hill, Daniel Harvey	14	187
Hindman, Thomas Carmichael	14	194
Hinton, Richard Josiah	14	199
Hitchcock, Ethan Allen	14	298
Hoke, Robert Frederick	14	313
Holmes, Theophilus Hunter	14	323
Hood, John Bell	14	360
Hooker, Joseph	14	363
Hooker, Joseph	14	363
Hoover, Herbert C.	11	441
	14	370
Hotchkiss, Benjamin Berkely	13	561
	14	436
Hovey, Alvin Peterson	14	451
Howard, John Eager	14	453
Howard, Oliver Otis	14	454
Howe, Albion Paris	14	454
Howe, Robert	14	457
	24	324
Hoyt, Henry Martyn	14	461
Huger, Francis Kinloch	14	476
Huger, Isaac	14	476
Hull, William	14	485
Humphrey, Charles Frederic	14	495
Humphreys, Andrew Atkinson	14	495
Hunt, Henry Jackson	14	510
Hunter, David	14	513
Hunter, Edward	14	514
	24	695
Ingalls, James Monroe	15	127
Ingalls, Rufus	15	127
Irvine, William	15	400
Izard, George	15	570
Jackson, Andrew	15	574
Jackson, Henry Rootes	15	579
Jackson, James	15	580
Jackson, Thomas Jonathan (Stonewall)	7	11
	7	14
	15	581
	24	692
	24	693
Jasper, William	15	751
Johnson, Edward	16	170
Johnson, Sir John	16	172
Johnson, Richard W.	16	174
Johnston, Albert Sidney	16	183
	24	711
Johnston, Joseph Eggleston	16	186
	24	326
	24	706
Jordan, Thomas	16	209
Kautz, Albert	16	322
Kautz, August Valentine	16	322
Kearny, Philip	16	327
Kearny, Stephen Watts	16	327
Keifer, Joseph Warren	16	335
Kelley, Benjamin Franklin	16	340
Kelton, John Cunningham	16	347
Kemper, Reuben	16	349
Kent, Jacob Ford	16	361
Kershaw, Joseph Brevard	16	381
Keyes, Erasmus Darwin	16	387
Kilpatrick, Hugh Judson	16	414
King, Rufus	16	432
Knowlton, Thomas	16	493
Knox, Henry	16	495
Kobbé, William August	16	502
Kosciuszko, Thaddeus	16	530
Lafayette, or La Fayette, Marie Jean Paul Roch Yves Gilbert Motier	16	647
La Fontaine	19	59
Lamb, John	16	671
Lane, James Henry	16	713
Lane, Joseph	16	714
Laurens, John	17	109
Lawton, Henry Ware	17	155
Ledyard, William	17	216
Lee, Charles	17	217
Lee, Fitzhugh	17	218
	27	51
Lee, Henry	17	219
Lee, Robert Edward	7	8
	17	221
Lee, Stephen Dill	17	225
Lee, Col. W. H. F.	24	699
Lejeune, John A.	18	291
Lemly, Henry Rowan	17	279
Lewis, Andrew	17	333
Lewis, Morgan	17	335
Lincoln, Benjamin	17	452
Lockwood, Henry Hayes	17	564
Lockwood, James Booth	17	564
Logan, John Alexander	17	595
Lomax, Lunsford Lindsay	17	616
Longstreet, James	17	647
	27	791
Loomis, Gustavus	17	652
Loring, William Wing	17	664
Lovell, Mansfield	17	695
Lowell, Charles Russell	17	699
Lufbery, Major Raoul	28	452
Luke, Frank	27	554
	28	4[illegible]2
Lyman, Phineas	17	774
Lyon, Nathaniel	7	7
	17	780
Lytle, William Haines	17	788
McAlester, Miles Daniel	18	6
MacArthur, Arthur	19	8
McCall, George Archibald	18	19
McClellan, George Brinton	7	7
	18	23
	23	488
McClernand, Edward John	18	24
McCook, Alexander McDowell	18	27
	25	685
McCook, Anson George	18	27
McCook, Daniel	18	28
McCook, E. M.	25	689
McCrady, Edward	18	31
McCrea, Jane	11	500
	18	32
McCulloch, Benjamin	19	33
McDougall, Alexander	18	39
McDowell, Erwin	7	8
	18	41
McHenry, James	18	51
McIntosh, Lachlan	18	62
McKibben, Chambers	18	71
McLane, Allan	18	74
MacLaws, Lafayette	18	75
McLeod, Hugh	18	79
McMichael, William	18	83
McMillan, James William	18	83

Biographies — cont'd	Vol.	Page
McPherson, James Birdseye	18	89
Mackenzie, Ranald Slidell	18	69
Maclay, William	18	76
Macomb, Alexander	18	86
Magruder, John Bankhead	7	10
	18	132
Mahone, William	18	137
Maney, George	18	209
Manigault, Arthur Middleton	18	214
Mansfield, Joseph King Fenno	18	234
March, Peyton Conway	18	268
Marcy, Randolph Barnes	18	276
Marion, Francis	18	292
Marmaduke, John Sappington	18	304
Marshall, Humphrey	18	326
Marshall, William Louis	18	328
Maury, Dabney Herndon	18	452
Maxey, Samuel Bell	18	454
Meade, George Gordon	18	474
Meade, Richard Kidder	18	474
Meagher, Thomas Francis	18	476
Meigs, Montgomery Cunningham	18	597
Meigs, Return Jonathan	18	597
Meissner, James	28	453
Mendenhall, John	25	687
Mercer, Hugh	18	655
Mercur, James	18	667
Merriam, Henry Clay	18	679
Merrill, Lewis	18	680
Merritt, Wesley	18	681
Mifflin, Thomas	19	46
Miles, Nelson Appleton	19	56
Miller, James	19	120
Miller, John Franklin	19	120
Miller, Warner	19	121
Mills, Albert Leopold	19	127
Milroy, Robert Huston	19	132
Montgomery, Richard	19	407
Morell, George Webb	19	446
Morgan, Daniel	19	450
Morgan, George Washington	19	451
Morgan, John Hunt	19	452
Morrison, John Frank	19	480
Mosby, John Singleton	19	494
Moultrie, William	19	521
Mower, Joseph Anthony	19	541
Munroe, Charles E	19	595
	25	137
Myers, Abraham C	19	659
Naglee, Henry Morris	19	680
Nash, Francis	19	712
Negley, James Scott	20	44
Nelson, William	20	66
Nicola, Lewis	20	327
Nixon, John	20	379
Noah, Samuel	20	382
North, William	20	410
Ogden, Frederick Nash	20	604
Oglesby, Richard James	20	607
O'Hara, Theodore	20	609
Opdycke, Emerson	20	699
Opechancanough	7	290
Ord, Edward Otho Cresap	20	752
Osterhaus, Peter Joseph	21	34
Oswald, Eleazer	21	38
Otis, Elwell Stephen	21	43
Otis, Harrison Gray	21	43
Ovenshine, Samuel	21	58
Page, Nathaniel	11	812
Paine, Charles Jackson	21	105
Palfrey, Francis Winthrop	21	203
Palmer, John McAuley	21	213
Parke, John Grubb	21	325
Parrott, Robert Parker	21	346
Parsons, Lewis Baldwin	21	349
Paterson, John	21	389
Patten, George Washington	21	407
Patterson, Robert	21	409
Patton, Frank Jarvis	21	411
Paulding, John	21	415
Peabody, Henry Oliver	21	438
Peck, John James	21	463
	25	791
Peck, William Guy	21	463
Pegram, John	21	472
Pemberton, John Clifford	21	490
Pender, William Dorsey	21	500
Pendleton, William Nelson	21	502
Pershing, John Joseph	21	612
	27	514
	28	347
Pettigrew, James Johnston	21	697
Phelps, Charles Edward	21	718
Phelps, John Wolcott	21	719
Phillips, George R	27	553
Phillips, William Addison	21	765
Pickens, Andrew	22	65
Pickett, George Edward	22	67
Pike, Zebulon Montgomery	22	82
Pinckney, Charles Cotesworth	22	93
Pitcairn, John	22	120
Pitcher, Thomas Gamble	22	120
Pleasonton, Alfred	22	243
Poe, Orlando Metcalfe	22	273
Poland, John Scroggs	22	286
Polk, Leonidas	22	318
Poor, Enoch	22	355
Pope, John	7	11
	22	360
	24	693
Porter, Fitz-John	22	390
	24	699
Porter, Horace	22	391
Porter, Peter Buel	22	391
Posey, Thomas	22	421
Prentiss, Benjamin Mayberry	22	532
Prescott, Oliver	22	544
Prescott, William	22	544
Preston, John Smith	22	559
Preston, L. Glen A	27	554
Preston, William	22	560
Price, Sterling G	7	8
	22	568
Pryor, Nathaniel	22	724
Pryor, Roger A	22	724
	25	791
Quitman, John Anthony	23	99
Rains, George Washington	23	194
Ramsey, Nathaniel	23	205
Ramseur, Stephen Dodson	23	206
Randall, George Morton	23	207
Ransom, Matthew Whitaker	23	213
Ransom, Robert	23	213
Ransom, Thomas Edward Greenfield	23	214
Rawlins, John Aaron	23	236
Reed, Hugh T	23	293
Reno, Jesse Lee	23	378
Reno, Marcus Albert	23	378
Revere, Joseph Warren	23	446
Reynolds, Joseph Jones	23	453
Rhett, Thomas Grimke	23	459
Rice, Edmund	23	485
Rickenbacker, Edward V	27	754
	28	452
	28	453
Ricketts, James Brewerton	23	508
Ripley, James Wolfe	23	535
Roberts, Benjamin Stone	23	567
Robinson, John Cleveland	23	582
Rochambeau, Jean Baptiste Donatien de Vimeur	23	587
Rodenbough, Theophilus Francis	23	619
Rodes, Robert Emmett	23	621
Rodman, Isaac Peace	13	560
	23	622
Rodman, Thomas Jefferson	23	622
Roe, Charles Francis	23	624
Roosevelt, Quentin	27	553
	28	452
Roosevelt, Theodore	23	680
Rosecrans, William Starke	7	7
	23	696
	25	685
Ross, William Potter	23	705
Rosser, Thomas Lafayette	23	707
Rousseau, Lovell Harrison	23	725
Rowan, Andrew Summers	23	728
Royall, Isaac	23	737
Ruger, Thomas Howard	23	756
Ruggles, Timothy	23	756
Rusling, James Fowler	23	783
Russell, David Allen	23	784
Sale, Sir Robert Henry	24	179
Sanborn, John Benjamin	24	247
Sanger, Joseph Prentice	24	261
Sargent, Herbert Howland	24	303
Sargent, Winthrop	24	304
Savage, Richard Henry	24	322
Saxton, Rufus	24	343
Schofield, John McAllister	24	384
Schuyler, Philip John	24	408
Scott, Charles	24	438
Scott, Hugh Lenox	24	439
Scott, John Morin	24	440
Scott, Robert Kingston	24	441
Scott, Winfield S	18	738
	19	326
	24	445
Sedgwick, John	24	523
Sedgwick, Robert	24	524
Serrell, Edward Wellmann	24	601
Sevier, John	24	622
Sewell, William Joyce	24	627
Seymour, Truman	24	634
Shafter, William Rufus	24	638
Shaler, Alexander	24	654
Sharps, Christian	24	662
Shaw, Robert Gould	24	666
Shelby, Isaac	24	681
Sheldon, Lionel Allen	24	682
Shepard, William	24	697
Shepley, George Foster	24	700
Sheridan, Philip Henry	24	701
	27	50
Sherman, William Tecumseh	24	704
	24	711
Shields, James	24	709

Biographies — cont'd	Vol.	Page
Sibley, Henry Hastings.	7	9
	24	775
Sickles, Daniel Edgar..	24	785
Sigel, Franz	24	695
	24	797
Sill, Joshua Woodrow..	25	9
Slemmer, Adam Jacoby.	25	97
Slocum, Henry Warner.	25	99
Smallwood, William....	25	108
Smith, Andrew Jackson.	25	113
Smith, Charles Ferguson	25	114
Smith, Edmund Kirby..	7	10
	25	115
Smith, Frederick Appleton	25	116
Smith, Gustavus Woolson	25	119
Smith, Jacob Hurd.....	25	121
Smith, James Argyle....	25	121
Smith, James Francis..	25	121
Smith, Morgan Lewis..	25	125
Smith, Samuel.....	25	126
Smith, William Farrar.	25	129
Spear, Ellis.....	25	365
Spencer, Joseph.....	25	394
St. Clair, Arthur.....	24	125
Stanley, David Sloane..	25	483
Stanton, Edwin McMasmasters	25	485
Stark, John.....	25	495
Steedman, James Barrett	25	562
Steuben, Friedrich Wilhelm August Heinrich Ferdinand	25	634
Stevens, Ebenezer.....	25	635
Stevens, Edward.....	25	635
Stevens, Isaac Ingalls..	25	636
Stevens, Phineas.....	25	637
Stewart, Alexander P...	25	642
Stoddard, Amos.....	25	665
Stone, Charles Pomeroy.	25	677
Stoneman, George.....	25	689
Strong, George Crockett.	25	739
Stuart, James Ewell Brown	25	746
Sullivan, John.....	25	808
Sully, Alfred.....	25	809
Summer, Samuel Starrow	26	18
Sumter, Thomas.....	26	19
Swamp Fox.....	18	292
Sweeny, Thomas William	26	125
Sweet, Benjamin Jeffrey	26	125
Swift, Joseph Gardner..	26	132
Sykes, George.....	26	157
Symmes, John Cleves...	26	165
Taliaferro, William Booth	26	224
Tallmadge, Benjamin...	26	229
Tanner, John Riley....	26	245
Taylor, Richard.....	26	301
Taylor, Zachary.....	18	738
	26	302
Terry, Alfred Howe....	26	449
Thayer, John Milton....	26	490
Thoburn, Joseph.....	26	569
Thomas, Geo. H.....	25	685
Thomas, George Henry..	26	572
Thomas, John.....	26	573
Thomas, Lorenzo.....	26	574
Thompson, Waddy.....	26	580
Thompson, William....	26	580
Tilghman, Tench.....	26	625
Tillman, Samuel Escue.	26	627
Tompkins, Charles H..	26	683
Toombs, Robert.....	26	697
Torbert, Alfred Thomas Archimedes	26	701
Totten, Charles Adiel Lewis	26	717
Tower, Zealous Bates..	26	723
Townsend, Edward David	26	727
Townsley, Clarence Page	26	728
Tracy, Benjamin Franklin	26	747
Travis, William Barrett	27	21
Tremain, Henry Edwin.	27	88
Trobriand, Philippe Regis	27	80
Tryon, William.....	14	168
	27	117
Twiggs, David Emanuel	27	227
Tyler, Daniel.....	27	231
Tyler, Robert Ogden...	27	233
Tyndale, Hector.....	27	234
Underwood, John Cox..	27	275
Upton, Emory.....	27	586
Van Cortlandt, Philip..	27	665
Van Dorn, Earl.....	27	669
Van Sant, Samuel R....	27	674
Varnum, James Mitchell	27	691
Viele, Egbert Ludovickus	28	78
Vinton, David Hammond	28	104
Vinton, Francis Laurens	28	104
Vogdes, Israel.....	28	162
Wade, James Franklin.	28	206
Wadsworth, James.....	28	207
Wadsworth, James Samuel	28	207
Wadsworth, Peleg.....	28	207
Walker, Benjamin.....	28	227
Walker, Leroy Pope....	28	229
Wallace Lewis.....	28	237
Wallace, William Harvey Lamb.....	28	238
Walthall, Edward Carey	28	250
Ward, Artemas.....	28	697
Ward, John Henry.....	28	698
Warmouth, Henry Clay.	28	705
Warren, Gouverneur Kemble	28	707
Warren, John.....	26	82
Warner, Seth.....	28	706
Washburn, Cadwallader Colden	28	770
Washington, George....	11	124
	11	311
	27	510
	28	773
Watie, Stand.....	29	107
Waul, Thomas Neville..	29	115
Wayne, Anthony.....	25	696
	29	121
Weatherford, William...	29	134
Webb, Alexander Stewart	29	142
Webb, Samuel Blatchley	29	143
Webster, Joseph Dana..	29	150
Weed, Stephen Hinsdale	29	155
Wheaton, Frank.....	29	246
Wheeler, Joseph.....	29	251
Wherry, William Macky	29	254
Whipple, William.....	29	257
White, Wilbur.....	28	473
Whiting, William Henry Chase	29	278
Whitney, Henry Howard	29	283
Whitside, Samuel Marmaduke	29	285
Wiard, Norman.....	29	289
Wilcox, Cadmus Marcellus	29	302
Wilkinson, James.....	29	321
Willcox, Cornélis De Witt	29	327
Willcox, Orlando Bolivar	29	327
Willett, Marinus.....	29	328
Williams, Alpheus Starkey	29	338
Williams, Ephraim.....	29	339
Williams, Jonathan.....	29	343
Williams, Seth.....	29	345
Wilson, James Harrison	29	360
Wilson, John Moulder..	29	361
Winder, William Henry	29	379
Wingfield, Edward Maria	7	289
Winslow, John.....	29	400
Winthrop, Theodore....	29	407
Wood, Eleazer Derby...	29	491
Wood, Leonard.....	29	474
Wood, Thomas John....	29	474
Woodbury, Daniel Phineas	29	492
Woodhull, Alfred Alexander	29	495
Woods, Charles Robert	29	498
Wool, John Ellis.....	29	500
Woolsey, Melancthon T.	24	89
Wooster, David.....	29	509
Worth, William Jenkins	29	562
Worth, William Scott..	29	562
Wotherspoon, William Wallace	29	562
Wright, Horatio Gouvérneur	29	569
Young, Franklin Knowles	29	650
Young, Samuel Baldwin Marks	29	651
Zalinski, Edmund.....	29	682
Zollicoffer, Felix Kirk...	29	722

GREAT BRITAIN

Allenby, Gen. Sir E. H. H.	1	417
	28	416
Armstrong, William George	2	286
	2	364
Ashmead-Bartlett, Ellis.	2	387
Auchmuty, Samuel.....	2	533
Aylmer, Matthew Whitworth	2	684
Baden-Powell, Robert Stephenson Smyth.....	3	33
Baird, Andrew Wilson..	3	56
Baird, Sir David.....	3	56
Baker, Valentine.....	3	61
Barré, Isaac.....	3	276
Beckwith, Sir George...	3	408
Benson, Sir Frederick William	3	523
Beresford, William Carr	3	541
Biddulph, Sir Michael Anthony Shrapnel.....	3	687
Birch, John.....	3	724
Bosquet, Pierre François	4	290
Botha, Louis.....	4	313
	28	399
Boulger, Demetrius Charles	4	328
Brackenbury, Sir Henry	4	382
Brinkley, Frank.....	4	543
Brock, Sir Isaac.....	4	570
Buller, Sir Redvers Henry	5	14
Burgoyne, Sir John Fox	5	42
Burleigh, Bennet.....	5	48
Burnaby, Frederick Gustavus	5	53
Burnes, Sir Alexander..	5	54
Bush, Hans.....	5	72
Butler, Sir William Francis	5	82
Byng, Sir Julian Hedworth George.....	5	96
	28	335

Biographies — cont'd	Vol.	Page
Cambridge, Adolphus Frederick	5	248
Cambridge, George William Frederick Charles 2d	5	248
Cameron, Charles Duncan	5	263
Campbell, Sir Colin	5	277
Campbell, Sir Colin (Lord Clyde)	5	277
Campbell, William (Lord)	5	281
Cardigan, James Thomas Brudenell	5	601
Cardwell, Lord	13	330
Cathcart, Sir George	6	56
Cathcart, William Schaw	6	56
Cavell, Edith	4	23
	6	149
Cavendish, William	6	150
Chandos, Sir John	6	287
Chelmsford, Frederic A. T.	6	377
Chermside, Sir Herbert Charles	6	415
Churchill, Winston Leonard Spencer	6	663
	13	344
Clive, Robert	7	117
Codrington, Sir William John	7	198
Colomb, Sir John Charles Ready	7	276
Colville, Sir Edwin Henry	7	346
Combermere, Sir Stapleton Cotton	7	349
Congreve, Sir William	7	519
Coote, Sir Eyre	7	644
Cope, Sir John	7	647
Craig, Sir James Henry	8	150
Cruickshank, Ernest Alexander	8	254
Currie, Sir Arthur William	5	414
	8	314
Dalrymple, John, 2d Earl of Stair	8	422
Dalyell, Thomas	8	424
Dalzell, Thomas	8	424
Denison, George Taylor	8	678
Desbarres, Joseph Frederick Wallet	8	718
Despard, Edward Marcus	9	14
Despenser, Hugh le	9	14
Dick, Sir Robert Henry	9	79
Dieskau, Ludwig August	9	100
Douglas, Sir Howard	9	279
Drummond, Sir George Gordon	9	352
Earle, William	9	487
Edwards, Sir Herbert Benjamin	9	706
Eschaillons, Sieur D'	24	156
Essex, Robert Devereux, 2d Earl of	10	516
Essex, Robert Devereux, 3d Earl of	10	516
Essex, Walter Devereux, 1st (Devereux) Earl of	10	516
Evans, Sir George de Lacy	10	591
Fairfax, Thomas	10	718
Fastolf, Sir John	11	53
Ferguson, Patrick	11	124
Fiset, Sir (Marie) Joseph Eugène	11	265
Fleetwood, Charles	11	342
French, Sir John Denton Pinkstone	5	412
	12	61
	28	300

Biographies — cont'd	Vol.	Page
Gatacre, Sir William Forbes	12	335
Girouard, Sir Edouard Percy Cranwill	12	667
Goffe, William	13	6
Gordon, Charles George	13	62
Gordon, Chinese	13	62
Gordon, Pasha	13	62
Grenfell, Francis Wallace	13	460
Grey, Charles	13	464
Gurwood, John	13	576
Haig, Sir Douglas	13	619
Haldane of Cloan	13	631
Haldane, Lord	13	344
Hamilton, Sir Ian	5	412
Hamilton, Ivan Standish Monteith	13	658
Hamley, Sir Edward Bruce	13	663
Harvey, Sir John	13	748
Haviland, William	13	767
Hertel De Rouville, Francis	14	152
Hill, Rowland	14	189
Howe, Sir William	14	458
Hughes, Hon. Sir Sam	5	414
Hutchinson, John	14	529
Ireton, Henry	15	323
Jervis, Sir William Francis Drummond	16	34
John of Gaunt	16	164
Kaye, Sir John William	16	324
Keane, John, Baron	16	326
Kelly-Kenny, Sir Thomas	16	344
Kennedy, Sir James Shaw	16	355
Kitchener, Horatio Herbert	13	331
	13	343
	16	463
Knollys, or Knolles, Sir Robert	16	489
Knox, John	16	497
Lambert, John	16	673
Langdale, Marmaduke, Baron	16	717
Laurie, John Wimburn	17	111
Lawrence, Stringer	17	146
Lévis, François Gaston	17	329
Londonderry, Charles William Stewart Vane	17	634
Lowe, Sir Hudson	17	698
Ludlow, William	17	722
McCrae, John David	18	31
McNab, Sir Allan Napier	18	85
Macdonald, Sir Hector	18	36
MacDougall, Sir Patrick Leonard	18	40
Maitland, Sir Peregrine	18	153
Malleson, George Bruce	18	167
Manny, Walter Baron de	18	231
Maritz, S. G.	28	399
Maude, Sir Stanley	18	447
Maurice, Sir Frederick Barton	18	450
Methuen, Paul Sanford	18	727
Miller, William	19	122
Mockler-Ferryman, Augustus	19	282
Moncrieff, Alexander	19	342
Montrose, James Graham	19	418
Moody, James	19	422
Moore, Sir John	19	432
Murray, James	19	610
Murray, Sir James Wolfe	19	610
Napier, Sir Charles James	19	693
Napier, Robert Cornelis	19	694
Napier, Sir William Francis Patrick	19	694

Biographies — cont'd	Vol.	Page
Nicholson, John	20	319
Nicholson, William Gustavus	20	321
Nightingale, Florence	14	431
	20	340
Nixon, General	28	409
Norfolk, Thomas Howard, 2d Duke	20	400
Ochterlony, Sir David	20	570
Otter, Sir William Dillon	21	48
O'More, Rory	14	166
	20	684
O'Neill, Hugh	27	247
O'Neill, Owen Roe	20	689
Outram, Sir James	21	55
Pakenham, Sir Edward Michael	21	132
Pasley, Sir William Charles	21	366
Pellatt, Sir Henry Mill	21	486
Partab, Sir Maharaja	21	352
Pertab Narayan Singh, Sir Maharaja	21	352
Peyton, General	28	411
Picton, Sir Thomas	22	70
Pigot, Sir Robert	22	81
Plumler, General	28	333
Pollock, Sir George	22	324
Prevost, Augustine	22	565
Prevost, George	22	565
Prideaux, John	22	571
Raglan, Fitzroy James Henry Somerset	23	133
Raleigh, Sir Walter	23	196
Rawlinson, General	28	352
Riall, Sir Phineas	23	480
Roberts, Frederick Sleigh	23	570
	28	306
Roberts of Kandahar, Pretoria and Waterford	23	570
Robertson, Sir William Robert	23	573
Robinson, Sir Frederick Philipse	23	580
Rohrbach, Paul	13	343
Rose, Hugh Henry	23	692
Ross, Alexander	23	703
Ross, Hew Dalrymple	23	703
Ross, Robert	23	704
St. Ledger, Barry	24	142
Saint Ours, Jean Baptiste de	24	156
Sarsfield, Patrick	14	166
	24	307
Scarlett, Sir James Yorke	24	358
Seymour, Sir John	24	633
Sheaffe, Sir Roger Hale	24	669
Sherbrooke, Sir John Coape	24	701
Sidney, Philip	24	787
Smuts, Jan Christiaan	25	140
Stanwix, John	25	488
Steele, Sir Samuel Benfield	25	608
Stewart, Bertrand	25	643
Stone, Charles Pomeroy	25	677
Swinton, E. D.	26	243
Talbot, John	26	221
Tandy, James Napper	26	240
Tarleton, Sir Banastre	26	272
Taylor, Philip Meadows	26	301
Taylor, Rowland	26	301
Townshend, Charles Vere Ferrers	26	728
	28	408
Tyrone (Hugh O'Neill)	27	247
Vere, Sir Francis	28	14
Vincennes, Jean Baptiste Bissot	28	94

Biographies — cont'd	Vol.	Page
Vincent, Charles Edward Howard	28	95
Warneford, Lieut. R. A. J.	28	453
Warren, Sir Charles	28	707
Warwick, Richard Neville, Earl of	28	769
Wellington, Arthur Wellesley, Duke of	29	180
Williams, Sir William Fenwick	29	345
Wilson, Sir Archdale	29	356
Wilson, Sir Henry Hughes	29	359
Wilson, Sir Robert Thomas	29	362
Wolfe, James	29	440
Wolseley, Sir Garnet Joseph	29	444
Wood, Sir Evelyn	29	472
Younghusband, George John	29	666
FRANCE		
André, Louis Joseph Nicolas	1	671
Andreossy, Antoine François	1	673
Arçon, Jean Claude Eléonore	2	187
Aremberg, August Maria Raimund	2	190
Argenson, Marc Pierre de Voyer	2	195
Armand, Charles Teffin	2	265
Assas, Nicolas, Chevalier d'	2	411
Aubusson, Pierre d'	2	532
Augereau, Pierre François Charles	2	540
Aurelle De Paladines, Louis Jean Baptiste d'	2	554
Bacler, D'Albe	3	18
Bange, Valerand de	3	142
Baraguay D'Hilliers, Achille	3	227
Baraquay D'Hilliers, Louis	3	227
Barbazan, Arnaul Guilhem Sirede	3	234
Bassompierre, François	3	319
Bayard, Pierre Terrail	3	361
Bazaine, Achille François	3	368
Bazancourt, César	3	369
Beauharnais, Alexandre	3	390
Beauharnais, Eugène de	3	390
Beauharnais, François	3	390
Bedeau, Marie Alphonse	3	413
Bedford, John Plantagenet	3	414
Belleisle, Charles Louis Auguste Fouquet	3	482
Belliard, Augustin Daniel	3	484
Benedetti, Vincent	3	508
Bernard, Simon	3	569
Berthier, Louis Alexandre	3	580
Bertrand, Henri Gratien	3	582
Berwick, James Fitz-James	3	583
Bessiéres, Jean Baptiste	3	588
Beurnonville, Marquis de	3	597
Billot, Jean Baptiste	3	707
Blanqui, Louis Auguste	4	63
Bonaparte, Napoleon	19	695
Boufflers, Louis François	4	323
Bourbaki, Charles Denis Sauter	4	345
Bourmont, Louis Auguste Victor	4	352
Broglie, François Marie	4	573
Broglie, Victor François	4	573
Broglie, Victor Claude, Prince de	4	574
Brune, Guillaume Marie Anne	4	631
Bugeaud De La Piconnerie, Thomas Robert	4	698
Buonarotti, Filippo	5	29
Cadoudal, Georges	5	135
Caffarelli, François Marie Auguste	5	142
Cambronne, Pierre Jacques Étienne, Count of	5	254
Canrobert, François Certain	5	528
Carnot, Lazare Nicolas Marguerite	5	643
Castellane, E. V. E. B.	6	3
Castelnau, E. de C. de	6	4
	28	305
Castries, C. E. G. de la C.	6	19
Cathelineau, Jacques	6	63
Catinat, Nicolas de	6	104
Cavaignac, L. E.	6	134
Cavalier, J.	6	135
Chambray, Georges	6	266
Changarnier, Nicolas A. T.	6	281
Chanzy, Antoine E. A.	6	294
Chartres, Robert Phillipe Louis Eugène Ferdinand D'Orléans	6	341
Chassepôt, Antoine Alphonse	6	347
Cissey, Ernest Louis Octave Courtet	6	698
Clarke, Henri Jacques Guillaume Comte D'Hunebourg and Duc de Feltre	7	47
Clausel, Bertrand	7	68
Cluseret, Gustave Paul	7	139
Coligny, Gaspard de	7	250
Colin, Jean Lambert Alphonse	7	251
Cossé, Charles de, Comte de Brissac	8	39
Crillon, Louis des Balbes de Berton de	8	192
D'Argenson, Marc Pierre, Comte	8	4
Davout, Louis Nicholas	8	514
Delaborde, Henri François, Count	8	604
Desaix de Veygoux, Louis Charles Antoine	8	717
Desmoulins, Lucie Simplice Camille	9	13
Dessaix, Joseph Marie	9	15
Didion, Isidore	9	92
Douay, Felix Charles	9	272
Dreyfus, Alfred	9	334
Drouet, Jean Baptiste, Comte d'Erlon	9	341
Duchesne, Jacques Charles René Achille	9	377
Du Guesclin, Bertrand	9	380
Dumas, Matthieu	9	396
Dumouriez, Charles François	9	399
Dunois, Jean	9	407
Dupleix, Joseph François	9	410
Dupont, Pierre Antoine	9	413
Duroc, Michel Gérard Christophe	9	426
Eon de Beaumont, Charles Geneviève Louis Auguste André Timothée d'	10	408
Espinasse, Esprit Charles Marie	10	503
Esterhazy, Marie Charles Ferdinand Walsin	10	527
Estrades, Godefroi	10	525
Excelmans, Rémi Joseph Isidore	10	618
Exelmans, Rémi Joseph Isidore	10	618
Exelmans, Remy Joseph Isidore	10	636
Fabvier, Charles Nicolas	10	697
Faidherbe, Louis Léon César	10	712
Failly, Pierre Louis Charles de	10	713
Farre, Jean Joseph Frédéric Albert	11	48
Favras, Thomas de Mahy	11	70
Fay, Charles Alexandre	11	71
Fayolle, General	28	326
Feltre, Henri Jacques Guillaume Clarke	11	107
Ferino, Pierre Marie Barthélemy	11	125
Ferrand, Marie Louis	11	135
Ferron, Théophile Adrien	11	142
Fiahaut De La Billarderie, Auguste Charles Joseph	11	328
Fleury, François L. T.	11	350
Flourens, Gustave	11	389
Foch, Ferdinand	11	409
	28	306
	28	332
	28	338
Foix, Gaston	11	413
Forey, Elie Frédéric	11	486
Foy, Maximilien Sebastien	11	567
Frossard, Charles Auguste	12	123
Gallieni, Joseph Simon	12	247
Galliffet, Gaston Alexandre Auguste	12	248
Gérard, Etienne Maurice	12	493
Ghislain, Louis Albert	3	18
Gourgand, Gaspard, Baron de	13	85
Gourgues, Dominique de	13	85
Gribeauval, Jean Baptiste Maquette de	13	467
Grouchy, Emmanuel	13	491
Guébriant, Jean Baptiste Budes	13	523
Guynemer, George	28	453
Hachette, Jeanne Lainé	13	606
Haxo, Francis Nicolas Benoit	14	12
Hoche, Lazare	14	306
Hullin, Pierre Augustin	14	486
Joffre, Joseph Jacques Césaire	16	153
	28	299
Joinville, Jean, Sire de	16	190
Jomini, Antoine Henri, Baron	16	193
Jung, Henri Félix Théodore	16	247
Junot, Andoche	16	252
Kellerman, François Christophe	16	339
Kellermann, François Etienne de	16	340
Kléber, Jean Baptiste	16	470
La Hire, Etienne de Vignolles	16	575
La Noue, François de	16	577
La Rochejacquelein, Henri Du Verger	16	581
La Trémoille, Trémouille, Louis II de	16	584

Biographies — cont'd	Vol.	Page
Labédoyère, Charles Angélique Huchet, Comte de	16	588
Ladmirault, Louis René Paul de	16	643
Lafayette, or La Fayette, Marie Jean Paul Roch Yves Gilbert Motier	16	647
Lallemand, Charles François Antoine, Baron	16	663
Lameth, Charles Malo François, Comte de	16	676
Lamoricière, Christophe Léon Louis Juchault de	16	678
Langlois, Hippolyte	16	721
Lannes, Jean, Duke of Montebello	16	734
Lanzerac, General	28	300
Latour d' Auvergne Corret Théophile Malo de	17	97
Lautrec, Odet de Foix	17	114
Le Flo, Adolphe Charles Emmanuel	17	164
Lebel, Nicolas	17	207
Lebon, Felix F. G	17	208
Leclerc, Charles V. E	17	211
Lefebvre-Desnouettes, Charles	17	232
Lefebvre, Pierre François Joseph	17	232
Louis XIV	2	363
	17	674
Luxembourg, Francois Henri de Montmorency-Bouteville	17	764
Macdonald, Jacques Joseph	18	35
Mangin, Joseph	18	212
Marchand, Jean Baptiste	18	272
Marmont, Auguste Frederic Louis Viesse de	18	305
Masséna, André	18	415
Maunoury, Michel Joseph	18	448
Minié, Claude Etienne	19	172
Monluc	19	360
Montcalm, Louis Joseph de Saint Véran	19	397
Montgomery, Gabriel	19	407
Montholon, Charles Tristan	19	409
Montmorency, Anne	19	412
Montmorency, Henri	19	412
Moreau, Jean Victor	19	445
Mortier, Edouard Adolphe Casimir Joseph	19	488
Napoleon I	19	695
	29	72
Nemours, Louis Charles Philippe Raphael d'Orléans	20	70
Ney, Michel	20	293
Niel, Adolphe	20	334
Niox, Gustave Léon	20	367
Nivelle, Robert Georges	20	378
	28	330
Noue, François de la	20	461
Oswald, Eleazer	21	38
Oudinot, Charles Nicholas, Duke of Reggis	21	51
Oudinot, Charles Nicolas Victor, Duke of Reggis	21	51
Paixhans, Henri Joseph	15	559
	21	132
Pau, Paul	21	411
Pelissier, Jean Jacques Aimable	21	485
Percin, Alexandre	21	571
Pétain, Henry Philippe	21	655
	28	332
Pichegru, Charles	22	65
Poncelet, Jean Victor	22	347
Rais, Gilles de Laval de	23	437
Rapp, Jean	23	218
Rays, Gilles de Laval de	23	437
Retz, Gilles de Laval de	23	437
Ribault, Jean	23	482
Ribault, Jean	23	482
Rochambeau, Jean Baptiste Donatien de Vimeur	23	587
Rohan, Henri de	23	632
Saint Arnaud, Jacques Leroy de	24	122
Saint Cyr, Laurent Gouvion	24	127
Saint Pierre, Jacques Legardeur de	24	166
Santerre, Antoine Joseph	24	284
Sarrail, Maurice	24	306
Savary, Anne Jean Marie René	24	328
Saxe, Maurice	24	339
Soubise, Benjamin de Rohan	25	268
Soult, Nicolas-Jean de Dieu	25	272
Suchet, Louis Gabriel	25	785
Tissandier, Gaston	19	59
	26	645
Trochu, Louis Jules	27	81
Turénne, Henri de la Tour d'Auvergne	27	177
Uhrich, Jean Jacques Alexis	27	254
Valette, Jean Parisot de la	27	648
Vauban, Sebastien le Prestre	27	699
Vendôme, Louis Joseph	27	726
Victor, Claude Perrin	28	66
Vieille, M	13	561
Villars, Claude Louis Hector	28	91
Vioménil, Antoine Charles du Houx	28	107
Vivandiere, Antonio	28	156

GERMANY

Biographies — cont'd	Vol.	Page
Alvensleben, Constantin von	1	459
Arnim-Boytzenburg, Hans Georg von	2	312
Arnim, General von	28	333
August, Friedrich Wilhelm Heinrich	2	542
August, Paul Friedrich	2	542
August, Wilhelm	2	542
Belling, Wilhelm Sebastian von	3	487
Below, Otto von	28	333
Berenhorst, Georg Heinrich	3	540
Berlichingen, Götz von	3	558
Berlichingen, Gottfried von	3	558
Bernhard	3	572
Bernhardi, Friedrich von	3	572
Bernhardi, Theodor von	3	573
Bethmann-Hollweg, Theobald	3	502
	13	545
Bismarck, Friedrich Wilhelm	4	17
Bissing, Baron Moritz Ferdinand von	4	22
Blücher, Gebhard Leberecht	4	122
Blum, Robert	4	131
Borstell, Karl Heinrich Ludwig von	4	284
Brandt, Heinrich von	4	413
Bredow, Adalbert von	4	459
Brenkenhof, Friedrich Balthasar Schönberg von	4	466
Brunswick, Ferdinand	4	636
Brunswick, Friedrich Wilhelm	4	636
Bülow, Dietrich Adam Heinrich von	5	18
Bulow, Friedrich Wilhelm	5	18
Cardinal von Widdern, Georg	5	602
Clausewitz, Karl von	7	63
Delbrück, Hans	8	617
Fabric, Georg Friedrich Alfred von	10	695
Falkenhayn, Erich G. A. S. von	10	730
Flad, Henry	11	307
Fougue, Heinrich August	11	548
Franke, Lieutenant Colonel	28	674
Fransecky, Eduard Friedrich von	12	19
Frederick the Great	12	33
	15	117
Freeden, Richard von	25	137
Fronsperger, Leonhard	12	122
Frundsberg, or Fronsperg, Georg von	12	139
Gneisenau, August Wilhelm Anton	12	736
Goeben, August von	12	751
Goltz, Kolmar, Baron von der	13	39
Grumbkow, Friederich Wilhelm von	13	504
Guichard, Karl Gottlieb	13	532
Hallberg-Broich, Theodor Maria Hubert	13	645
Hindenburg, Paul von Beneckendorff	14	193
	28	364
Keith, James	16	336
Kluck, Alexander H. R. von	16	475
	28	303
Knesebeck, Karl Friedrich von dem	16	479
Knyphausen, Baron Wilhelm von	16	501
Krupp, Francis	2	364
Ludendorff, Erich von	17	720
	28	339
Lützow, Ludwig Adolf Wilhelm	17	763
Mansfeld, Peter Ernst II	18	234
Manteuffel, Edwin Hans Karl	18	237
Maurice of Saxony	18	450
Mauser, Paul von	18	452
Moltke, Helmuth von	19	331
	28	299
Moltke, Helmuth Karl Bernhard	19	330
Pappenheim, Gottfried Heinrich	21	269
Riedesel, Friedrich Adolph	23	513
Roon, Albrecht Theodore Emil von	23	680
Salm-Salm, Felix	24	190
Sanders, Liman von	24	254

Biographies — cont'd	Vol.	Page
Scharnhorst, Gerhard Johann David von	24	368
Seckendorf, Friedrich Heinrich	24	510
Sickingen, Franz von	24	784
Steinmetz, Karl Friedrich	25	612
Steuben, Friedrich Wilhelm August Heinrich Ferdinand	25	634
Tilly, Johann Tserklaes	26	628
Vogel, Falckenstein, Edward von	28	163
Von Emmich, Otto	28	184
Waldersee, Alfred, Count von	28	222
Wallenstein, Albrecht Wenzel Eusebius von	28	239
William I	29	332
William II	29	332
York Von Wartenburg, Hans David Ludwig	29	644
Zieten, Hans Joachim von	29	208
Ziethen, Hans Joachim von	29	708
ITALY		
Annunzio, Gabriel d'	2	4
Badoglio, Pietro	3	35
Baratieri, Oreste	3	229
Barbiano, Abrechtda	3	237
Braccio Da Montone, Andrea	4	379
Cadorna, Luigi, Count	5	135
	15	462
Cadorna, Raffaele	5	135
	15	459
Campo Basso, Niccolo	5	285
Canale, Nicolo	5	480
Capisucchi, Biago	5	558
Capizucca, Biasio	5	558
Carmagnola, Francesco	5	627
Chasteler, Jean Gabriel	6	348
Cialdini, Enrico	6	666
Colonna, Fabrizio	7	298
Colonna, Marco Antonio	7	299
Colonna, Prospero	7	299
Diaz, Armando	15	462
Fabrizi, Nicola	10	696
Fanti, Manfredo	11	13
Farnese, Alessandro (Duke of Parma)	11	43
Foix, Gaston de	11	413
Garibaldi, Giuseppe	12	292
	15	468
Onosander or Onesander	20	692
Parro, Count	22	376
Pepe, Gugliemo	21	562
Piacentini, General	15	462
Rizzo, Luigi	28	397
Salvator, John Nepomuk	16	165
Sforza, Francesco	7	483
	24	634
Spinola, Ambrosio	25	415
Tancred	26	240
RUSSIA		
Alexeiev, General	1	377
	28	359
	28	377
Apraxin, Stephan Feodorovitch	2	101
Auffenberg	28	365
Bagration, Peter	3	43
Barclay De Tolly, Michael, Prince	3	243
Bariatinski, Alexander Ivanovich, Prince	3	251
Baur, Frederick Wilhelm von	3	351
Bennigsen, Levin Augustus	3	521
Berg, Friedrich Wilhelm Rembert	3	542
Bezborodko, Alexander Andreyevitch, Prince	3	605
Brusiloff, Alexei Alexeievitch	4	641
Brusilov, Alexei Alexeievitch	4	641
Cancrin, Georg, Count	5	493
Danki	28	366
Denikin	28	473
Diebitsch-Sabalkanski, Hans Karl Friedrich Anton	9	94
Dragomirov, Mikhail Ivanovitch	9	294
Fadeyev, Rostislav Andreievitch	10	707
Gagarin, Alexander Ivanovich	12	225
Gortchakoff, Prince Mikhail	13	67
Gripenberg, General	15	733
Gurko, Ossip Vladimirovitch	13	575
Kaulbars, Alexander	16	321
Kaulbars, Nikolai, Baron	16	321
Kolchak, Admiral	28	382
	28	473
Korniloff, Laurus Gregorovitch	16	529
Kouropatkin, Alexei Nikolayevitch	15	732
	16	535
Kutusov, Michael Ilarionovitch Galenishtchev	16	562
Launitz, Vladimir	17	106
Lefort, François Jacques	17	233
Loris-Melikoff, Mikhail Tarielovitch Tainoff	17	664
Milutin, Dmitri Alexievitch	19	140
Nikolai, Nikolaievitch	20	345
	28	359
Paskevitch, Ivan Fedorovitch	21	366
Platoff, Matvei Ivanovitch	22	234
	22	238
Potemkin, Gregory Alexandrovich	22	445
Radko-Dmitriey, General	28	360
Rastopchin, Feodor Vassilievich	23	713
Rennenkampf, Paul Charles von	23	377
	28	362
Rostopchin, Feodor Vassilievich	23	713
Ruzsky, Nicolas Vladimirovitch	24	69
	28	360
Sievers, General	28	371
Skobeleff, Mikhail Dimitrievich	25	77
Stackelberg, General	15	733
Stoessel, Anatoli Mikhailovitch	15	731
	25	666
Suvoroff-Rimnikski, Alexander Vasilievitch	26	105
Todleben, Franz Eduard Ivanovitch	26	668
Totleben, Franz Eduard Ivanovitch	26	668
Trepov, Dmitry Feodorovitch	27	48
Turchin, John Basil	27	175
Turchininoff, Ivan Vasilievitch	27	175
Wrangell, Ferdinand Petrovitch, Baron	29	564
Zhilinsky, General	28	359
AUSTRIA		
Aremberg, Leopold Philipp Karl Joseph	2	190
Arenberg, Leopold Philipp Karl Joseph	2	190
Aulich, Ludwig	2	552
Beaulieu, Jean Pierre	3	391
Bellegarde, Henri	3	481
Benedik, Ludwig von	3	503
Birago, Karl, Baron von	3	723
Browne, Ulysses Maximilian	4	617
Bubna und Littitz, Ferdinand	4	652
Clam-Gallas, Eduard	7	31
Dhaun, Leopold Joseph Maria, Count von	9	53
Esslingen, or Essling	10	518
Eugène, Prince	10	506
Féjérvary, Géza	11	97
Frederick (Friedrich Maria Albrécht Wilhelm Karl)	12	30
Hötzendorf, Count Conrad von	14	441
Jovanovic, Stephen, Baron von	16	224
Laudon, Gideon Ernst	17	101
Loudon, Gideon Ernst	17	101
Mack von Leiberich, Karl	18	63
Mészáros, Lozar	18	694
Montecucoli, Raimondo	19	898
Radetzky, Johann Joseph Wenzel Anton Fritz Karl	23	116
Rudolph, Franz Karl Joseph	23	754
Slatin Pasha	25	85
Sobieski, John III	14	282
	16	173
Tekeli, Emmerich	26	326
Tokoly, Emmerich	26	326
Wurmser, Dagobert Siegmund, Count von	29	576
Zrinyi, Niklas	29	735
JAPAN		
Arisugawa Taruhito	2	244
Kawamura, Kageaki, Viscount	15	731
	16	323
Kodama, Gentaro, Viscount	15	732
	16	506
Kuroki, General	15	731
Nogi, Kiten Marosuke	20	390
Nozu, General	15	731
Oku, Yasukata, Count	15	731
	20	641
Oyama, Prince	15	732
	21	80
Saigo, Kichinoswke Takamori	24	111
Saigo, Yorimichi (Judo)	24	111
Tackimi, Lieutenant-General	15	733
Yamaji, Motoharu	29	610
SPAIN		
Blanco, Ramon y Arenas	4	60
Cabrera, Ramon	5	127
Calleja del Rey, Felix Maria	5	226

Biographies — cont'd	Vol.	Page
Campos, Arsenio Martinez de	5	287
Castaños, Don Francisco Xavier de	5	720
Ceballos, Pedro	29	690
Concha, José Gutierrez de la	7	461
Concha, Manuel de la	7	461
Contreras, Juan Senen de	7	600
Córdoba, Fernando Fernandez de	7	688
Córdoba, Luis Fernandez de	7	688
Davila, Alonzo	8	507
Dávila, Juan	8	507
De Soto, Hernando	9	13
Diaz, Don Juan Martin	9	74
Eslava, Sebastian de	10	500
Espartero, Baldomero	10	501
Esquivel, Juan de	10	507
Guemez De Horcasitas, Juan Francisco Conde de Revilla Gigedo	13	524
Guemez, Pacheco De Padilla Horcasitas, Juan Vincente, Conde de Revilla Gigedo	13	524
John of Austria	16	161
Jovellar Y Soler, Joaquin	16	224
Marguerit, Berenger	18	280
Margarit, Berenger	18	280
Morillo, Pablo	19	459
Navarro, Pedro	20	6
O'Donoju, Juan	20	586
O'Donnell, J	25	336
O'Donnell, Leopold, Duke of Tetuan	20	585
Olid, Cristóbal de	20	661
O'Reilly, Count Alexander	20	784
Orsna, Pedro de	27	598
Peña Plata, Marquis de	4	60
Prim, Juan	22	274
Riego y Munez, Rafael del	23	513
Santillana, Inigo López de Mendosa, Marquis of	24	285
Serna y Hinojosa, José de la	24	597
Ursua, Pedro de	27	598
Zeballos, Petro	29	690
Zumalacarregui, Tomas	29	738
SOUTH AMERICA		
Artigas, Fernando José	2	363
Benalcazar, Sebastian de	3	499
Blanco, Antonio Guzman	4	60
Blanco Encalada, Manuel	4	60
Blanco, José Felix	4	60
Blanco, Pedro	4	60
Boves, José Tomas	4	35
Cáceres, Andrés Avelino	5	128
Campero, Narciso	5	283
Centeno, Diego	6	200
Córdoba, José Maria	7	688
Cruz y Goyeneche, Luis de la	8	265
Daza, Hilarion	8	524
Dias, Henrique	9	72
Diaz, Ruy	9	75
De Soto, Hernando	9	13
Encalada, Manuel Blanco	10	314
Echenique, José Rufino	9	541
Espinosa, Gaspar de	10	505
Flores, Juan José	11	366
Flores, Venancio	11	366
Fonseca Lima e Silva, Manuel da	11	425
Fonseca, Manoel Deodoro da	11	425
Freire, Ramon	12	56
Gamarra, Augustin	12	260
Gáray, Juan de	12	278
Huelen	14	473
Iglesias, Miguel	14	671
Lamar, or Lamar y Cortezar, José	16	665
Lima e Silva, Luiz Alves de	17	439
Lynch, Patricio	17	777
Melgarejo, Mariano	18	604
Miranda, Francisco Antonio Gabriel	19	220
Monagas, José Tadeo	19	335
Obando, José Maria	20	536
O'Higgins, Bernardo	20	609
Osorio, Manoel Luiz	21	23
Peixoto, Floriano	21	475
San Martin, José de	24	245
Santa Cruz, Andres	24	278
Sucre, Antonio José de	25	786
Urquiza, Justo José de	27	598
Villagra, Francisco	28	90
MEXICO		
Ana, Antonio Lopez De	24	276
Anaya, Pedro Maria	1	651
Bravo, Leonardo	4	422
Ceballos, José	6	158
Comonfort, Ygnacio	7	425
Detroyat, Pierre Léonce	9	33
Diaz del Castillo, Bernardo	9	75
Escalante, Juan	10	489
Escobedo, Mariano	10	495
Fernandez, Juan Felix	28	70
Fuero, Joaquin	12	147
Gonzales, Manuel	13	49
Gutierrez de Lara, Bernardo	13	581
Herrera, José Joaquin de	14	144
Hidalgo y Costilla, Miguel	14	169
Huerta, Victoriano	14	474
Leön, Antonio	17	299
Marquez, Leonardo	18	310
Miramon, Miguel	19	220
Obregon, Alvaro	20	544
Santa Anna, Antonio Lopez de	24	276
Victoria, Guadalupe	28	70
Vidaurri, Santiago	28	77
OTHER COUNTRIES		
Arabi, Ahmed El	2	116
Arabi Pasha	2	116
Arenberg, August Maria Raimund	2	190
Arnold of Winkelried	2	319
Artabanus IV	2	347
Artereld Jacob van	2	350
Arteveld, Philip van	2	350
Bem, Josef	3	496
Beyers, Christian Frederick	3	604
Bostanji Bastri	4	292
Cameron, Charles Duncan	5	263
Chares	6	305
Chlopicki, Joseph	6	574
Cimon	6	678
Cleombrotus	1	788
	7	88
Cronje, Pietrus Arnoldus	8	226
Czarneki, Stefan	8	378
Czarnieki, Stefan	8	378
Czerny, George	8	384
Daendels, Hermann Wilhelm	8	390
De La Rey, Jacobus Hendrick	8	607
Dembinski, Henryk	8	632
De Wet, Christiaan	9	46
Djezzar	9	212
Dmitrieff, Radko	9	212
Dombrowski, Jan Henryk	9	240
Dupleix, Joseph François	9	410
Edhem Pasha	9	583
Enver Bey	27	176
Epaminondas	10	410
Essad Pasha	10	508
Fagel, Frans Nicolaas	10	710
Fersen, Fredrick Axel von	11	143
Flor, Roger di	11	362
Gòmez y Baez, Maximo	13	42
Gustavus Adolphus	2	363
	4	536
	15	117
	24	615
Haldimand, Sir Frederick	13	631
Hannibal	13	679
Hasdrubal	13	749
Havelock, Sir Henry	13	763
Hofer, Andreas	14	308
Howe, Samuel Gridley	14	458
Huang-Hsing	14	463
Hussein Nazim Pasha	14	527
Hwang-Hsing	14	463
Joubert, Petrus Jacobus	16	215
Kalergis, Demetrius	16	282
Karaiskakis, Georgios	16	308
Kolokotronis, Theodoros	16	512
Königsmark, Hans Christopher, Count von	16	518
Kosciuszko, Thaddeus	16	530
Le Boulange, Paul Emil	17	162
Mahmud, Shevket Pasha	18	137
Mappa, Adam Gerard	18	261
Mardonius	18	276
Mendiburn, Manuel de	18	626
Morosini, Francesco	19	472
Mukhtar Pasha	19	551
Nesciat Bey	27	176
Nicias	20	321
Omer Pasha	20	683
Osman Nuri Pasha	21	21
Pétion, Alexandre Sabes	21	672
Philopœmen	21	768
Pretorius, Marthinas Wessels	22	562
Printz, Johan	22	600
Saravoff, Boris	24	295
Stentor	25	616
Suleiman Pasha	25	807
Tontia Topi	26	250
Thurn, Henry Mattrias	26	602
Torstensson, Lennart	26	713
Toussaint, François Dominique	26	722
Wrangel, Karl Gustaf von, Count	29	565
Weyler Y Nicolau, Valeriano	29	230
Yakub Beg	29	606
Yuan Shih-Kai	29	671

MINERALOGY

General	Vol.	Page
Accessory minerals	23	6 3
Achrematite	19	332
Adipocerite	13	754
Agate	1	232
Ægirite	1	172
Æschynite	1	197
Aggtelek	1	267
Agricolite	1	243
Agtelek	1	267
Alabandite	1	307
Alabaster	1	307
	13	592
Alaska, mineral resources	1	313
Albert coal	1	337
Albertite	1	337
Albite	1	339
	11	99
Albitic granite	11	99
Alexandrite	1	374
Allanite	1	409
Allemontite	1	412
Almaden	1	430
Del Azogue	1	430
Aluminite	1	454
Aluminium	1	455
Aluminum	1	455
	19	159
Alunogen	1	458
Amazonstones	1	470
Amber	1	471
Amblygonite	1	472
Amethyst	1	570
Amphibole	1	587
	14	384
Analcite	1	606
Andreasberg	1	672
Andreolite	1	672
Anglesite	1	684
Anhydrite	1	695
Animikean	1	714
Ankerite	1	714
Anorthite	2	5
	11	99
Anthosiderite	2	17
Anthracite	2	18
	7	145
Antimonite	25	645
Antimony	2	34
	5	440
	10	187
	17	46
	18	746
	19	159
glance	25	645
Apatelite	2	53
Apatite	2	53
Aphanesite	2	56
Aphanite	2	56
Apjohnite	2	58
Apophyllite	2	68
Aquamarine	2	105
Aragonite	2	131
Argentite	2	221
	25	12
Argyrodite	2	233
Arizona, mineral resources	2	2 2
Arsenic	2	331
	19	159
Arsenolite	2	333

General — cont'd	Vol.	Page
Arsenopyrite	2	334
Asbestos	2	376
	5	442
	19	159
Asmanite	2	401
Asphalt	2	405
	19	159
Asphaltic coal	2	407
Asterism	2	444
Atacamite	2	486
Atelestite	2	490
Auerlite	2	539
Aurichalcite	2	554
Autunite	2	669
	27	589
Axenite	2	682
Azurite	2	692
Balas ruby	25	413
Barite	3	2 2
Barium	3	252
Barytes	19	159
Bauxite	3	352
Beauxite	3	352
Belonesite	19	332
Bementite	3	497
Benitoite	22	525
Beryl	3	583
Biotite	3	723
	19	9
Bismuth	17	44
	19	159
Bismuthinite	4	20
Bitumen	4	26
Bituminous, or soft coal	4	145
rock	2	405
Black Jack	4	36
Black tin	4	39
Black wad	4	39
Blende	4	76
Block coal	4	91
Bloodstone	4	115
Blue Billy	15	379
Blue John	4	125
Blue stone	4	128
Blue vitriol	4	128
Boghead coal	4	154
Bog iron ore	4	153
	5	441
	15	379
Bolaños Mines of Jalisco	18	744
Bole	4	179
Bonanza ore	18	744
Boracite	4	263
Borax	4	263
	4	281
	19	159
Bornite	4	280
Boron	4	281
Bournonite	4	353
Brazilian pebble	4	444
Brochantite	4	570
Bromine	4	576
	19	160
Brookite	4	591
Brown spar	4	613
Brucite	4	627
Bucklandite	4	668
Buhrstone	4	701
Burrstone	4	701
Cadmia	5	134

General — cont'd	Vol.	Page
Cadmium	19	160
blende	13	437
Calamine	5	155
Calaverite	5	157
Calcite	5	159
group	5	159
Californite	22	526
Cannel coal	7	145
Candelario Mine	18	744
Cape Nome	5	548
Carnallite	5	631
Carnotite	5	645
	27	589
Cassiterite	5	712
	25	723
Cement	19	160
Cerargyrite	6	222
	25	12
Cerite	6	225
Cerusite	6	228
Ceylonite	25	413
Chalbazite	6	240
Chalcanthite	8	3 0
Chalcedony	6	250
Chalcedonyx	6	250
Chalcopyrite	6	251
Chalybite siderite	6	257
Chameleon mineral	6	267
Chapin Mine	15	381
Chert	6	419
Chi-Batopilas Mines	18	744
Chile saltpetre	25	222
Chlorastrolite	6	575
Chlorite group	6	577
Chlorite schist	6	577
Chlorophane	6	578
Chlorophyllite	6	579
Chromite	5	442
or Chromic iron	6	632
Chromium	5	440
	19	160
Chryosberyl	6	648
Chrysocolla	6	648
Chrysottle	6	650
Cinnabar	6	686
Cleveite	14	81
Clinographic	9	318
Coal	5	441
	7	143
Coal deposits of Coahuila	18	745
Cobalt	5	441
Columbite	7	338
Copper	5	441
	7	652
	7	656
	18	745
	19	160
	27	310
Copperas	7	666
Copper mines	18	746
Copper ore deposits	24	46
Corkite	7	697
Corundum	5	442
Cosalite	8	31
Covellite	8	129
Crocidolite	8	217
Crocoite	8	219
Cross-stone	25	538

General — cont'd	Vol.	Page
Crystallo-chemical analysis	8	271
Crystal	8	267
Crystalline	8	271
Crystallography	8	271
	19	164
Crystals, external form of	8	267
Cuprite	8	304
Cyanide practice	8	348
Cyanide process	8	348
Cyanite	8	349
Cyanose	8	350
Cyanotrichite	17	325
Cyprine	8	369
Dacite	8	389
Datholite	8	491
Datolite	8	491
Decantation process	8	349
Decloisite	27	675
Decrepitation	8	572
Delta metal	8	629
Dendrite	8	676
Derbyshire spar	8	711
Descriptive mineralogy	19	167
Determinative mineralogy	9	23
Deweylite	9	48
Dialogite	23	476
Diallage	9	58
Diamond	9	61
Didymium	9	94
Dog-tooth spar	9	229
Dopplerite	9	263
Doublet	9	276
Dry bone	25	134
Dufrenite	9	388
Dunite	9	405
Edelite	22	529
Elaterite	10	54
El Caballo Mining District	18	744
El Dorado	18	743
Electrum	10	219
Emerald	10	286
Emery	19	160
Enargite	10	313
Endochrome	10	320
Enstatite	10	398
Eosite	19	332
Erinite	10	478
Erythrite	10	488
Ethiops mineral	10	548
Euclase	10	563
Eudialyte	10	564
Eukairite	10	572
Euxenite	10	588
Fassaite	11	51
Felsite	11	106
Feldspars	5	442
	11	98
	19	160
	23	602
Feldspar in tabular form	23	602
Ferromanganese	18	210
Ferromagnesian minerals	23	603
Flint	11	358
Float-stone	11	359
Florida, minerals in	11	370
Flotation process in metal mining, The	11	380
Fluorite	11	404
Fluorspar	11	404
	19	160
Fool's Gold	15	379
	23	43
Foot-wall	11	455
Formation of minerals	19	166
Franklinite	12	17
Friedelite	12	103
Fuller's earth	19	160

General — cont'd	Vol.	Page
Gahnite	12	226
Galena	12	235
	25	13
Garnet	19	160
Gehlenite	12	358
Genthite	12	402
Gibbsite	12	643
Gilsonite	12	658
Girasol	12	665
	20	698
Gismondine	12	668
Gismondite	12	668
Glance	12	680
Glass-opal	20	698
Glass sand	19	160
Glassy feldspar	24	262
Glauberite	12	712
Glaucodot	12	712
Glauconite	12	713
Glaucophane	12	713
Gmelinite	12	735
Goethite	13	6
Gorgebic range	15	381
Gold	5	440
	5	548
	18	744
	22	140
	27	744
ore, in Russia	24	46
and silver	7	371
Grahamite	13	108
Granite pegmatites	11	99
Graphite	5	442
	19	160
Gray cobalt	25	108
Gray copper	26	456
Great American desert	9	5
Guembelina	13	546
Gümbelite	13	546
Gummite	27	589
Gypsum	5	442
	13	592
	19	160
Halite	13	639
Halloysite	13	649
Haloids	19	167
Hardness	19	165
scale of	13	699
Harmotome	1	672
Hatchettite	13	754
Hausmannite	13	761
Haüyne	13	762
Haüynite	13	762
Hematite	14	88
	15	379
Hessite	14	159
Hiddenite	22	521
Horn silver	25	12
Hyalite	14	534
Hyalophane	11	99
Hydrolite	12	735
Hydrophane	14	582
	20	698
Hydrous silicate of alumina	13	546
Hydrozincite	14	589
Hypersthene	14	604
Idaho, mineral resources of	14	656
Idocrase	28	45
Ilmenite	14	703
Ilsemannite	19	332
Impsonite	14	731
Infusorial earth	19	161
Iolite	15	290
	25	611
Iridosmine	15	324
Iron	5	440
	15	361
	27	310
ore	15	379
	19	160

General — cont'd	Vol.	Page
Austria	15	380
Bohemia	15	380
Canada	15	380
Cuba	15	380
France	15	380
Germany	15	380
Great Britain	15	380
South America	15	380
Sweden	15	380
United States	15	380
discovery of, in U. S.	15	371
districts	15	381
supplies of the world	15	380
pyrites	23	43
	26	1
Isomorphism	15	421
Isostasy	15	422
Itacolumite	17	426
Jade	15	594
Jagersfontein excelsior	15	595
Japan, mineralogy of	15	626
Jarosite	15	749
Jaspilite	15	752
Jet	16	46
Job's tears	21	585
Josephinite	16	213
Kalium	16	284
Kaolin	11	99
	16	307
Kermes mineral	16	379
Kinkite	29	712
Kleinite	16	471
Krennerite	16	542
Kunzite	16	577
Labradorite	11	99
	16	624
Laccolite	16	626
Lake Angeline Mine	15	381
Lake Pitch	2	405
Land pitch	2	405
Lapis-lazuli	16	742
Lapis solis	3	252
Laterite	16	762
Latrobite	17	98
Laumontite	17	104
Lazulite	17	161
Lead	5	441
	19	160
	27	311
ore	24	46
Lepidolite	17	307
	19	9
Lepidomelane	17	307
Lettsomite	17	325
Leucite	20	77
Lignite or brown coal	7	145
Lime	19	160
Limesoda feldspars	11	98
Limestone	19	160
Limonite	15	379
	17	444
Linarite	17	445
Linnaite	17	461
Lithia mica	17	307
Lithiophilite	17	513
Lithium minerals	19	160
Lode gold	5	440
Lovers pit	15	381
Ludbury district	5	440
Macle	18	76
Magnesite	5	442
	19	160
Manganese	18	210
	19	160
Magnetic iron ore	18	130
Magnetic pyrites	23	46
Magnetite	15	379
	18	130
Malachite	18	158

General — cont'd	Vol.	Page
Manganese	5	440
	19	160
bronze	18	211
ore deposits	24	46
Manganous sulphate	18	210
Manganite	18	212
Mapimi Mines	18	244
Marcasite	18	267
	25	811
Margarite	18	280
Marls	19	160
Marquette Range	15	381
Martite	15	379
Maryland minerals	18	351
Massicot	18	416
Meerschaum	18	592
Melaconite	18	599
Melanterite	18	601
Melilite	18	604
Melinite	20	698
Mellilite	18	604
Menaccanite	14	706
Menominee Range	15	381
Mercury	5	440
Mesabi Range	15	381
Metacinnabarite	18	696
Metahewettite	18	696
Metals	18	706
Metavoltine	18	711
Mexican onyx	18	736
Mica	5	442
	19	9
	19	160
	23	608
common	19	617
Microcline	11	99
	19	32
Microlite	19	33
Millerite	19	123
Mimetite	19	143
Mineral adipocere	13	754
Mineral industries of France	11	707
Mineral deposits in United States	11	481
Mineral land laws of the United States	19	156
Mineralogy	19	164
chemical	19	166
descriptive	19	167
determinative	9	23
physical	19	165
Mineral paints	19	160
Mineral production of Canada	5	439
	5	442
Mineral production of the United States	19	157
Mineral products of Luzon	17	766
Mineral resources of Peru	21	644
Mineral resources of Portugal	22	410
Mineral resources of Uruguay	27	600
Mineral resources of Venezuela	27	728
Mineral tallow	19	161
Mineral wealth of the United States	27	310
Minerals and mineral production of Mexico	18	743
Minerals, formation and occurrence of	19	166
Minerals of Alberta	1	335
Minerals of Canada	5	439
Minerals of Germany	13	546
Minerals, uses of	19	167
Minette beds of Lorraine	15	380
Minette beds of Luxemburg	15	380

General — cont'd	Vol.	Page
Mining districts, important sulphide	25	810
Mirabilite	19	217
Mixite	19	275
Mohawkite	19	308
Moissanite	22	521
Molybdenite	19	331
Molybdenum	5	440
	19	160
Molybdite	19	332
Molybdoferrite	19	332
Monazite	19	160
	19	342
	22	140
Monetite	19	345
Montanite	19	396
Montroydite	19	419
Monzonite	19	421
Moonstone	11	98
	19	427
Morganite	22	522
Mosandrium	19	493
Muscovite	19	9
	19	617
Nacrite	19	678
Nagyagite	19	681
Natron	19	767
Naumannite	19	782
Necronite	20	37
Needle-ore	20	39
Nelsonite	20	67
Nephelite or Nepheline	20	77
Nephilite	23	608
Nephrite	22	524
New Caledonia minerals	5	440
Niccolite	20	309
Nicholsonite	20	321
Nickel	5	440
	19	160
Nigrite	20	341
Nivenite	20	379
Non-metallic minerals	5	441
Novaculite	20	467
Obsidian	20	552
Ochres	5	442
Oligoclase	11	99
Olivenite	20	665
Olivine	20	667
Onofrite	20	692
Opacite	20	698
Opal	20	698
Ophite	20	706
Optical mineralogy	20	719
Ore	20	771
	23	603
Ore deposits	20	771
Orphite	21	12
Orpiment	21	10
Orthoclase	11	98
	21	12
Osmiridium	15	324
Oxygen salts	19	167
Palladium	5	441
Paragonite	19	9
Parral district	18	745
Pateraite	19	332
Pearcerite	21	474
Pearl mica	18	280
Pencil stone	23	45
Pentlandite	21	556
Peridotite	21	585
Perofskite	21	603
Petrified corralin	15	546
Petzite	21	698
Phenacite	21	720
Philippite	21	759
Phonolite	21	792
Phosphates deposits	24	46
Phosphorite	21	795
Phyllite	22	24
Physical mineralogy	19	165
Picromerite	22	70

General — cont'd	Vol.	Page
Pisanite	22	116
Placer deposits	22	139
Plagioclase	22	140
Plasma	22	223
Platinum	5	440
	19	160
	22	140
	24	46
sources of	22	230
in the United States	22	230
world's production of	22	230
Play of colors	22	242
Pleonaste	25	413
Plumbojarosite	22	238
Pollucite	22	324
Polybasite	22	326
Polycrase	22	329
Polyhalite	22	331
Polymignite	22	331
Polysynthetic twining	11	99
Porcupine gold region	5	440
Porphyrite	22	374
Porphyry	22	375
Porto Rico mineral resources	22	401
Potash	19	160
feldspars	11	98
Potassium manganate	18	211
Potassium mica	19	9
Powellite	19	332
Precious metals	22	521
Precious stones	22	521
Prehnite	22	529
Pressure figures	22	558
Priceite	22	568
Production of metals	19	159
Proustite	22	607
	25	2
Prussia minerals	22	716
Pumice	19	161
Pyrargyrite	23	41
	25	12
Pyrites	5	442
	15	397
	19	161
	23	43
	25	811
Pyrolusite	23	44
Pyromorphite	23	45
Pyrophyllite	23	45
Pyroxene	23	46
Pyrrhotite	23	46
Quartz	5	442
	23	64
Quartzites	23	59
Quicksilver	19	161
Radium	14	81
Relative hardness of elements and ores	8	259
Realgar	23	234
Rectorite	23	275
Red hematite	14	88
Reddle	23	286
Rhodochrosite	23	476
Rhodolite	23	477
Rhodonite	23	477
Rhyacolite	23	478
Rickardite	23	508
Rochlingite	23	626
Rocky Mountain minerals	23	616
Roscoelite	23	692
Rowlandite	23	732
Rubellite	23	747
Rubicelle	25	413
Ruby	22	521
	23	750
Ruby silver ore	25	12
Ruby spine	15	413
Ruby spinel	23	750
Ruby matrix	23	750
Ruthenium	24	67
Rutile	24	67

General — cont'd	Vol.	Page
Salt	24	197
industry	24	200
Salvador, mineral resources of	24	211
Samarskite	24	220
Sanidine	24	262
Sardinia	24	299
Satelite	24	311
Satin spar	13	592
Sauconite	24	316
Scapolite	24	353
Scheelite	24	364
Scolecite	24	424
Scorodite	24	426
Secondary minerals	23	603
Selenite	13	592
	24	539
Selensulphur	24	539
Sepiolite	24	574
Serpentine	23	603
	24	599
Siam, minerals	24	763
Siderite	15	379
	24	786
Sibia sands	23	59
Silica	19	161
Silicates	24	811
Siliceous crystalline	23	59
Silecon	24	811
Sillimanite	25	9
Silver	19	161
	25	12
Canadian	5	440
glance	25	12
Mexican	18	744
ore	24	46
producing districts	25	13
producing States, chief	25	14
sulphide	25	12
United States	27	310
world's production of	25	14
Slate	19	161
Slickensides	25	97
Smaltite	25	108
Smithsonite	5	155
	25	134
Smoky quartz	25	137
Soapstone	19	161
	26	222
Sodalite	25	221
group	25	221
Soda nitre	25	221
Soda pegmatites	11	99
Sodium	25	221
mica	19	9
Sombrerete	18	744
Sources of potassium	22	443
South America, minerals	1	486
Spanish Colonial Period of mining	18	743
Spanish mines	15	380
Spathic iron ore	15	362
Specular iron	14	88
Sperrylite	25	401
Spessartite	25	401
Spiegeleisen	18	210
Spinel	25	413
group	25	413
Spodumene	25	427
Stannaries	25	484
Stannite	25	485
Star quartz	25	490
Stassfurtite	25	505

General — cont'd	Vol.	Page
Staurolite	25	538
Staurotide	25	538
Steatite	25	561
Steinheilite	25	611
Stephanite	25	616
Stetefeldite	25	633
Stibnite	2	34
Stilbite	25	647
Streak	19	165
	25	723
Stream tin	25	723
Stribiconite	25	645
Stribnite	25	645
Stromeyerite	25	739
Strontianite	25	740
Strontium minerals	19	161
Sulphide copper ores	25	810
Sulphides	25	811
Sulpho-salts	19	167
Sulphur	19	161
	26	1
Sun stone	3	252
	11	98
	26	38
Surface deposits	19	187
Sweden, mineral resources of	26	115
Switzerland, mineral resources of	26	144
Sylvanite	5	157
	26	158
Talc	5	442
	19	161
	26	221
Talpujahua Mine	18	745
Tantalite	26	250
Tellurium	26	402
Tennantite	26	415
Tennessee, mineral resources of	26	418
Tenorite	26	436
Tephroite	26	439
Terlinguaite	26	443
Terra verde	26	445
Terra verte	26	445
Tetradymite	26	456
Tetrahedrite	26	456
Thalenite	26	486
Thenardite	26	507
Thomsonite	26	586
Thorianite	26	587
Thorite	26	587
Thorium	17	46
Thorogummite	26	589
Thulite	26	599
Tiemannite	26	619
Tin	22	140
ore	19	161
pyrites	25	485
white cobalt	25	108
Titanite	26	646
Titanium ores	19	161
Topazolite	26	700
Torbanite	4	154
Torbernite	26	701
	27	589
Tourmaline	26	719
Tremolite	27	39
Tridymite	27	55
Triphylite	17	513
Tripoli	19	161
Troostite	27	86
Tschermigite	27	117
Tufa	27	131

General — cont'd	Vol.	Page
Tungsten	5	440
	27	144
ore	19	161
Tyuyamunite	27	248
Uintahite	12	658
	27	254
Ulexite	27	262
Unakite	27	269
Underground deposits	19	188
Uralite	27	588
Uranin	27	589
Uraninite	27	589
Uranium and vanadium minerals	19	161
Uranocircite	27	589
Uranophane	27	589
Uranosphærite	27	589
Uranospinite	27	589
Urao	27	589
Utahlite	27	619
	27	689
Uvarovite	27	623
Valencia silver mine	18	745
Vanadinite	27	675
Variscite	27	689
Vashegyite	27	695
Vermiculites	28	16
Vermont, minerals	28	19
Vesuvianite	28	45
Vivianite	28	156
Volborthite	28	171
Von Kobell tables	9	24
Wacke	28	203
Wad	28	204
Wavellite	29	116
Weisbach's tables	9	23
Wernerite	29	194
White arsenic	5	442
Whitneyite	29	284
Willemite	29	328
Williamsite	29	346
Witherite	29	432
Wolframite	29	443
Wollastonite	29	443
Wulfenite	19	331
	29	575
Wurtzilite	29	578
Wurtzite	29	578
Wyomingite	29	590
Xanthoconite	29	596
Xenotime	29	598
Yellow copperas	29	624
Yttrialite	29	671
Zaratite	29	689
Zeolite	29	702
Zeunerite	29	705
Zinc	5	440
	27	311
	29	711
bloom	14	589
minerals	29	711
ore	19	161
Zincite	29	712
Zircon	29	714
Zoisite	29	721
Zorgite	29	731

See also **Gems, Jewelry and Precious Metals**; under **Engineering — Mining Engineering**; under **Geology — Crystallography and Economic Geology; Metallurgy; Mining and Mineral Resources.**

MINING AND MINERAL RESOURCES

General	Vol.	Page
After-damp	1	227
Alaska, minerals	1	313
Alberta, minerals	1	335
Amalgamation process	1	426
Amalgam, treatment of	13	19
America, mineral resources	1	487
Arctic region minerals	2	188
Argentina, mining	2	215
Arizona, minerals and mines	2	252
Arkansas, minerals and mining	2	256
Assaying	2	413
Australia, minerals	2	564
	2	601
Belgium, mines	3	458
Bengal, minerals	3	510
Bolivia, mining	4	188
Brazil, mining	4	437
Canada, minerals	5	439
California, mining	5	205
Cape Nome, mines	5	548
Chile, mining	6	506
Claims, extralateral rights	19	186
location of	19	185
lode	19	185
swinging	19	186
Coal. See Fuels and Illuminants.		
Coal mine disasters	19	152
Cobalite	7	173
Cobalt	7	173
ores	7	173
Columbia, mining	7	281
Colorado, mining	7	319
Copper	7	651
discovery and development of	7	655
geology	7	656
gray	26	456
industry	7	660
ore sulphide	25	810
ores and occurrence	7	652
physical properties	7	651
production	7	654
smelting	7	659
stamping	7	658
Costa Rica, mining	8	43
Crystallography	19	164
Deposits, surface	19	187
underground	19	188
Discovery claim	15	100
Extraction, processes	19	188
Fire-damp	11	234
Florida, minerals and mining	11	370
France, mineral industries	11	701
Georgia, mining	12	485
Gold dredging	13	16
Gold mining and metallurgy	13	14
Gold mining, geographical distribution of	13	19
history of	13	14
in the Transvaal	27	11

General — cont'd	Vol.	Page
Gold ore, amalgamation	13	18
chemical treatment of	13	19
concentration	13	18
crushing	13	18
flotation	13	18
treatment of	13	17
Gold production in the United States	13	21
Gold standard and gold production	13	22
Great Britain, mining industry	13	274
Guiana, minerals	13	528
Hoisting	19	176
Haulage, endless rope	19	178
railway	19	176
surface	19	178
Iceland, minerals	14	628
Idaho, mining	14	656
Illinois, mining	14	686
India, minerals	15	2
Indiana, minerals and mining	15	34
Iron. See Iron and Steel.		
Japan, mineral wealth	15	626
Kentucky, mineral wealth	16	364
Latin America, mineral industry	17	43
Lead	17	171
ores	17	171
production	17	172
Louisiana, minerals	17	680
Luzon, mineral	17	766
Maine, minerals and mining	18	143
Maryland, minerals	18	351
Metal mining, flotation process	11	380
Mexico, minerals and mineral production	18	743
Michigan, minerals and mining	19	22
Milling	19	175
Mill sites	19	187
Mine accidents	19	149
fatalities due to explosives	19	170
statistics	19	150
Mine gas	19	152
Mine haulage	19	176
evolution of	19	176
Mineral Land Laws of the United States	19	156
Mineralogy	19	164
chemical	19	166
descriptive	19	167
determinative	19	168
physical	19	165
Mineral production of the United States	19	157
Mineral resources of Russia	24	45
Minerals, formation and occurrence of	19	166
uses of	19	167

General — cont'd	Vol.	Page
Miners, protection of	19	186
rules and regulations	19	183
Mines, development of	19	173
drainage of	19	173
open-pit	19	173
surveying	26	94
ventilation of	19	173
Mining	19	172
caving system	19	175
engineering	19	179
Engineers, American Institute of	19	182
explosives	19	175
geology	19	182
hydraulic	13	16
industry, American	19	182
of Great Britain	13	274
of the United States, geographic distribution	19	172
laws of the United States	19	182
legislation, Federal	19	184
lode	13	17
longwall method	19	175
patents	19	187
quartz	13	17
room and pillar	19	174
schools	19	181
sluice	13	16
statutes	19	187
systems of	19	173
top slicing and covered caving	19	175
underground	19	174
vein	13	17
Minnesota, minerals	19	201
Mississippi, minerals	19	243
Missouri, minerals	19	255
Montana, mines and mining	19	388
Newfoundland, minerals	20	268
Nevada, mining	20	109
New Hampshire, mining	20	126
New Mexico, minerals	20	150
New South Wales, minerals	20	161
New York, minerals	20	189
New Zealand, minerals	20	248
Nicaragua, minerals	20	303
North Carolina, minerals	20	414
North Dakota, minerals	20	421
Norway, minerals	20	437
Nova Scotia, minerals	20	464
Ohio, minerals and mining	20	610
Oklahoma, minerals	20	636
Ore	20	771
crushing	19	188
deposits	20	771
classification of	20	772
dressing	19	188
separation	19	188
treatment of	19	178
Oregon, minerals	20	774
Paraguay, minerals	21	278

General — cont'd	Vol.	Page
Pennsylvania, minerals	21	520
Persia, minerals	21	615
Peru, minerals	21	644
Philippine Islands, minerals	21	735
Placer claims	19	186
Placer mining	13	15
	19	174
Placers	22	140
Porto Rico, minerals	22	401
Portugal, minerals	22	410
Prospecting	19	173
Prussia, minerals	22	716
Quebec, mines of	23	72
Queensland, minerals	23	81
Rhode Island, minerals	23	466
Russia, minerals	24	45
Salvador, minerals	24	211
Sand wheel	24	252
Scotland, mining	24	431
Serbia, mining	24	579
Siam, minerals	24	763
Siberia, minerals	24	768
Silver	25	12
ores	25	12
metallurgy of	25	13
producing districts	25	13
Slickensides	25	97
South Carolina, mineral industry	25	290
South Dakota, minerals	25	300
Spain, mining	25	326
Stannaries	25	484
Stoping	19	174
Sulphide copper ores	25	810
Sweden, minerals	26	115
Switzerland, minerals	26	144
Tennessee, minerals	26	418
Tetrahedrite	26	456
Texas, mining	26	461
Tin	26	638
characteristics of	26	638
ores	26	638
refining process	26	638
production	26	639
stone	26	638
Turkey, mineralogy	27	181
Ukraine, minerals	27	259
United States, mineral wealth	27	310
Uruguay, minerals	27	600

General — cont'd	Vol.	Page
Utah, mining	27	612
Venezuela, mineral resources	27	728
Vermont, minerals	28	19
Virginia, minerals	28	117
Washington (State), mining	28	783
West Virginia, mineral resources and mining	29	209
Whin	29	256
Whinstone	29	256
Wisconsin, minerals	29	418
Wyoming, minerals and mining	29	584

Mining and Milling Machinery

	Vol.	Page
Allis-Chalmers steam stamp	19	190
Austin gyratory rock breaker	19	189
Belt conveyor	19	178
Blake crusher	19	188
Cams	19	192
Classifiers	19	194
Crushing rolls	19	189
Concentrator	15	100
Dolly	15	100
Flint mill	11	358
Gravity planes	19	178
Gravity stamps	19	188
Hero's fountain	14	143
Jigger	15	108
Jumper	15	108
Miners' lamps, Davy's	16	682
Mackworth's	16	682
safety	16	682
Mining and milling machinery	19	187
Pulverizers	19	188
	19	194
Rolls	19	188
Stamp dyes	19	192
Stamp heads	19	192
Stamp shoes	19	192
Steam stamps	19	188
Tappets	19	192
Ten-stamp battery	19	190
Trams, wire rope	19	178
Tube mills	19	188

Mining Terms	Vol.	Page
Apex	2	55
Arch	15	98
Back	15	98
Back-casing	15	98
Barney	15	99
Bedded vein	4	63
Blanket vein	4	63
Blue-cap	15	99
Bonanza	4	203
Bonnet	15	99
Brood	15	99
Buck	15	99
Buddle	15	99
Bulling-bar	15	99
Bully-head	15	99
Bunchy	15	99
Buntons	15	99
Cap	5	541
Capel	5	550
Caple	5	550
Cobbing	15	99
Clog	15	99
Counter-lode	15	100
Coursing	15	100
Creep	15	100
Cutter	15	100
Dead ground	15	100
Deck	15	100
Downcast	15	101
Drag	15	101
Drift	15	101
Dropper	15	101
Face	15	101
Foot-wall	11	455
Glance	15	102
Grizzlies	15	102
Mine, chamber of a	6	258
Panning	15	103
Pocket	15	104
Reef	15	104
Salt a mine, to	15	104
Sump	15	105
Wall	15	105
Wash	15	105
Winning	15	105
See also under **Geology — Economic Geology; Metallurgy; Mineralogy;** under **Engineering—Mining Engineering.**		

MUSIC

General

	Vol.	Page
A	1	2
	19	642
A battuta	19	642
Abbandone	19	642
Abbandono	19	642
A bene placito	19	642
Absatz	19	642
A capella	19	642
A capriccio	19	642
Accellerando	19	642

General — cont'd	Vol.	Page
Accent	1	69
	19	640
Acciaccatura	19	642
Accidentals	19	643
Accidents	19	642
Accompaniment	1	77
Acoustics	19	642
Adagio	1	113
	19	642
assai	19	642

General — cont'd	Vol.	Page
cantabile e sostenuto	19	642
Adagissimo	19	642
A deux	19	642
A deux temps	19	642
Ad libitum	1	143
	19	642
A due	19	642
Affetto, con	19	642
Affettuosamente	19	642
Affettuoso	19	642

General — cont'd	Vol.	Page
Afflizione, con	19	642
Affrettando	19	642
Affrettate	19	642
Africaine, L'	1	225
Agitato	19	642
Agitazione, con	19	642
Aida	1	271
	19	629
Air	1	276
Ai	19	642
Alessandro Stradella	1	359
All'	19	642
Alla	19	642
Allegremente	19	642
Allegro	1	412
	19	642
All' improvvista	19	642
Æolian mode	19	283
Al seg	19	642
Al segno	19	642
Alt	19	642
Alta	19	642
Altissimo	19	642
Alto	19	642
Amabile	19	642
Ambrosian chant	13	443
	22	149
America	1	495
Amina	1	570
Amore, con	19	642
Amorevole	19	642
Amoroso	19	642
Andante	19	642
Andantino	19	642
Andrea Chenier	1	671
Anima, con	19	642
Animato	19	642
Animoso	19	642
Anleitung	19	642
Anthem	19	642
Antiphone	19	642
A piacere	19	642
A piacimento	19	642
Aplomb	19	642
Appassionamento	19	642
Appassionato	19	642
Appoggiatura	2	91
	19	642
A prima vista	19	643
A quatre mains	19	642
A quatro mani	19	642
Ardito	19	642
Aria	2	233
	19	642
Arioso	19	642
Aristoxenus	2	244
Armida	2	271
Arpeggio	2	324
	19	642
Assai	19	642
Asor	14	57
A tempo	19	642
Attacca	19	642
subito	19	642
Audace, con	19	643
Auna corda	19	643
Austrian National Hymn	19	732
Authentic modes	13	444
	22	149
Avista	19	643
Bach Festival	3	15
Ballad	3	97
opera	3	97
Ballet music	19	626
	20	748
Bar	3	226
Barcarolle	3	239
Baritone	3	252
Barytone	3	252
Barber of Seville	3	235
	19	628

General — cont'd	Vol.	Page
Barred music	22	149
Bass	3	315
clef	3	315
Bass-counter	3	315
Basso concertante	3	315
Basso recitante	3	315
Basso ripieno	3	315
Battle Cry of Freedom, The	3	346
Battle-hymn of the Republic	3	346
Bayamese hymn	3	361
Beat	3	386
Beethoven's compositions	3	438
	22	57
Beggar's Opera, The	3	443
Begleitung	19	643
Belgian National Hymn	19	732
Bellezza, con	19	643
Bellicosamenti	19	643
Bellicoso	19	643
Ben	19	643
Ben marcato	19	643
Bene placito	19	643
Berlin singakademie	11	50
Big five	19	629
Binary logarithms	3	713
Bind	19	640
Bis	19	643
B Minor Mass	19	628
Bohème, La	4	157
Bohemian Girl, The	4	159
Bolero	4	179
Bombastes Furioso	4	199
Bonnie Blue Flag	4	221
Boris Godunov	4	275
Bow	4	358
Boshe Zaria Chrany	19	734
Brabaçonne	4	378
	19	732
Brangane	4	414
Bravura, air	4	422
Breve	4	473
	19	643
Brillante	19	643
Brio	19	643
con	19	643
Brioso	19	643
Brise	19	643
Buffa	19	643
Buffo	19	643
Buffoon	4	697
Bunthorne's Bride	21	399
Cadence	5	132
Cadenza	5	132
Ca Ira	5	113
Calando	19	643
Calcando	19	643
Calmato	19	643
Calore	19	643
Canon	19	646
Cantabile	5	528
	19	643
Cantata	5	529
	19	627
Cantilena	19	643
Canto fermo	22	149
Canto figurato	5	535
Cantor	19	643
Cantoris	19	643
Cantus	19	643
firmus	5	538
	13	445
	19	643
planus	22	149
Canzonet	19	643
Capella, alla	19	643
Capo	19	643
Capriccio	5	571
	19	643
Capriccioso	19	643

General — cont'd	Vol.	Page
Carillon	5	613
Carmagnole	5	627
Carmen	5	629
	19	629
Carol	5	645
Catch	6	47
Cavatina	6	142
Cavalleria Rusticana	6	137
Celtic school	11	680
	11	698
Chamber music	6	258
Chant	6	291
Chant du départ	6	291
Characters	19	644
Chimes	6	513
Chimes of Normandy, The	6	514
Chinese pavilion	6	559
Chinese system of music	19	645
Choir	6	582
Choragus	6	590
Choral	6	590
Choral service	6	591
Chorale	6	590
	19	627
Chord	6	592
	19	642
Choregus	6	590
Chorus	6	598
Christmas carol	6	623
Chromatic	6	631
scale	19	642
	19	643
Clavichord	3	14
	7	64
Clef	7	80
	19	640
Cloches de Corneville, Les	22	153
Closed tone method	28	167
Coda	19	643
Col	19	643
Coll'	19	643
Colla	19	643
parte	19	643
Commodamente	19	643
Commodo	19	643
Common-time	7	415
	19	643
Community music	7	422
Complement	7	431
Con	19	643
Concert	7	460
Concerto	7	460
Concert pitch	7	460
Concord	7	463
Contes D'Hoffmann, Les	7	584
	26	223
Coranach	7	678
Cor Anglais	7	676
Coronach	7	678
Coryphaeus	13	419
Counterpoint	8	105
	13	445
Cres	8	181
Crescendo	8	181
Crescent	8	181
Da capo	8	387
Dal	19	643
segno	19	643
Daphne	19	626
Daughter of the Regiment, The	8	498
Decani	19	643
Deciso	19	643
Decrescendo	19	643
De ignoto cantu	19	625
De la Patria	19	733
Delicatemente	19	643
Delicatezza, con	19	643
Delicato	19	643
Dem Vaterland	19	734

General — cont'd	Vol.	Page
Denominator	19	640
Design	9	9
Development	19	627
Dextra	19	643
Diatonic	9	74
scale	19	641
	22	149
Diapason	9	70
Diazeuctic tone	9	76
Die Wacht am Rhein	19	733
Dilettante	19	643
Dim	19	643
Diminuendo	19	643
Discord	9	154
Dissonance	9	172
Divertimento	19	643
Divoto	19	643
Dixie	9	210
Dolce	19	643
Dolcemente	9	232
	9	233
Dominant	9	242
Don Giovanni	9	250
Don Pasquale	9	252
Dorian mode	9	265
	13	408
	13	443
	19	283
Dot	19	639
Double flat	19	641
Double measure	19	640
Double sharp	19	641
Dramatic opera	19	628
Dreyfus case	13	468
Dulce domum	9	392
Dulce Patria	19	733
Dupin	11	688
Dynamics	19	639
Eclectic school	24	34
Editio medicea	13	446
Editio Vaticana	13	446
Egyptian music	10	19
Eighteenth century music	10	34
Eileen Aroon	28	576
Eisteddfod	10	42
Electrical diapason	10	150
Elegamente	19	643
Elegante	19	643
Elegy	10	219
Elijah, The	10	240
Empfindung	19	643
Energia, con	19	643
Energicamente	19	643
Energico	19	643
Enharmonic	10	380
Entfuhrung Aus Dem Serail, Die	10	400
Epithalamium	10	436
Erminie	10	480
Ernani	10	480
Eroica Symphony	10	482
Espressione, con	19	643
Espressivo	19	643
Esther	10	522
Etude	10	558
Eugen Onlegin	10	565
Exposition	19	627
Extravaganza	10	675
Exultet	21	370
	22	149
Fa	10	690
False cadence	10	736
Falsetto	10	736
Falstaff	11	1
Fandango	11	9
	19	643
Fanelli	11	688
Fanfare	11	10
Fantasia	11	12
Faust	11	66
Favorita, La	11	70

General — cont'd	Vol.	Page
Feis ceoil	11	97
Fermata	11	125
Fidelio	11	178
	19	628
Fifth	11	196
Figaro, Le Nozze di	11	202
Figure	11	204
Figured bass	3	315
	11	204
Final	22	149
Finale	11	212
Flat	11	334
	19	641
Flemish school	19	625
	19	626
Flying Dutchman, The	11	407
Folk-songs	19	628
Form	11	489
Forte	11	514
Forz	19	643
Forzando	19	643
Fra Diavolo	11	568
Franco of Cologne	19	625
Franckist school	11	684
French music	11	680
Freischütz	11	57
	19	628
Fretta, con	19	643
From the Depths of Swedish Hearts	19	734
Fugue	12	150
	19	627
	22	335
Fundamental bass	3	315
	12	162
Fundamental note	12	162
Fundamental tone	12	162
	13	716
Fuoco, con, Focoso	19	643
F Z	19	643
Gallic music	11	680
Galop	19	643
Gamba	12	260
Gamut	12	271
Gavotte	19	643
Gebunden	19	643
General pause	12	376
German music	12	569
Gioconda, La	12	660
Giocosamente	19	643
Giocoso	19	643
Giojoso	19	643
Girl of the Golden West	12	666
Giusto	19	643
Glee	12	714
	19	643
Glissando	19	643
Glissicato	19	643
Gloria al bravo pueblo	19	734
God in His Goodness	19	734
God for Poland	19	734
God Preserve the Tzar	19	734
God Save the King (or Queen)	12	744
	19	733
Gong	13	45
Götterdämmerung	13	81
Gradual	13	104
Grandioso	19	643
Grave	19	643
Grazia, con	19	643
Graziosamente	19	643
Grazioso	19	643
Great Hallel	13	443
Great musical epoch	19	627
Greek modes	19	284
Greek music	13	407
Gregorian chants	11	680
	13	443
	19	624
	22	149
Gregorian modes	19	284

General — cont'd	Vol.	Page
Greig Peer Gynt Suite	21	470
Ground bass	3	315
Guarneri	13	516
Guarnerius	13	516
Guarnica	3	314
Gusto	19	643
con	19	643
Gustoso	19	643
Hail Columbia	13	620
Handel and Buononcini controversy	12	36
Hänsel und Gretel	13	685
Harmonicon	13	716
Harmonics	13	716
Harmony	13	718
Harp	14	57
Hatikya	19	733
Hauptsatz	19	643
Hauptstimme	19	643
Hebrew music	14	57
Herodiade	14	137
Himmo Nacional de la República Oriental del Uruguay	19	734
Hindu music	15	24
Hold	19	640
Home Sweet Home	21	434
Homophony	19	643
Honor to a Brave Nation	19	734
Huguenots, The	14	482
Humoreske	14	494
Hungary	14	505
Hymno Constitucional	19	734
Hymno de Riego	19	734
Hyperdorian mode	19	283
Hyperlydian mode	19	283
Hyperphrygian mode	19	283
Hypo-Dorian mode	13	444
	19	283
Hypo-Lydian mode	13	444
	19	283
Hypo-mixo-Lydian mode	13	444
Hypo-Phrygian mode	13	444
	19	283
Imperial Chapel choir	24	30
Imponente	19	643
Incantation	14	735
Independent Musical Society	11	683
India, music of	15	23
Indian music	15	29
In Exitu Israel	22	149
Inquisitive Women	15	148
Instrumental forms	19	626
Instrumentation	15	175
Interior players	19	650
Intermezzo	15	224
	19	643
Interval	13	718
	15	268
Intoning	19	643
Inversion	15	287
Ionian mode	19	283
Iphigenia in Aulis	15	303
Irish homophonois music	15	350
Irish music	15	349
Isten áldd meg a Magyart	19	733
Istesso	19	643
Italian music	15	536
Jews music	16	82
Jig	16	146
Jongleur de Notre Dame, Le	16	204
Judas Maccabæus	16	230
Julien	16	243
Kapellmeister	16	307
Kathleen Mavourneen	16	315
Kayah Than	19	733
Key	16	386
Keynote	22	149

General — cont'd	Vol.	Page
Kimi Ga Yo Wa	19	733
King Christian Stood Beside the Mast	19	733
Kinnor	14	57
Kol Nidre	14	58
Kong Christian stod ved böjen Mast	19	733
Königskinder	16	518
Kreutzer Sonata	16	542
Kyrie	19	643
Lakmé	16	662
Lamentations of Jeremiah	22	149
Larghetto	19	643
Larghissimo	19	643
Largo	16	748
	19	643
Last Rose of Summer, The	16	761
Leader	17	174
Leading note	17	174
	19	643
Leading tone	17	174
Leading of voices	17	174
Lebhaft	19	643
Leeds Musical Festival	17	229
Legatissimo	19	643
Legato	19	643
Leger lines	17	242
	19	640
Leggierezza, con	19	643
Leggiero	19	643
Leitmotif	17	273
	19	629
Lentando	19	643
Lento	19	643
Let Us Hail Our Country	19	734
Lied	19	628
Loco	19	643
Locrian mode	19	283
Lohengrin	17	612
Longs	22	149
Lord, Bless the Hungarian	19	733
Louise	17	679
Lucia Di Lammermoor	17	716
Lulli	19	626
Lusingando	19	643
Lustig	19	643
Lydian mode	13	408
	13	444
	19	283
Ma	19	643
Madrigal	19	643
Maestoso	19	643
Magnificat	19	643
Main	19	643
Major	18	156
scale	19	641
Mano	19	643
Maple Leaf Forever, The	19	733
Marcatissimo	19	643
Marcato	19	643
Marchesi	28	166
Marchettus of Padua	19	625
Marching Through Georgia	18	272
Marcia Reale Italiana	19	733
Marseillaise, La	18	321
	19	733
Mascotte, La	18	376
Master singers	18	598
Marziale	19	643
Matins	19	643
Mazurka	18	472
Meantone	18	479
Measure	18	480
	19	643
Measures	19	640
Meistersingers	18	598

General — cont'd	Vol.	Page
Melodies	19	639
	19	640
	22	149
Melodrama	18	607
	19	643
Melody	18	607
Melopiano	18	609
Melos	19	629
Men	19	643
Meno	19	643
Mensural music	18	636
Mesotonic temperament	18	479
Messa di voce	19	643
Mesto	19	643
Meter	19	640
Metre	18	729
Metronome	19	643
Mexicanos, al grito de guerra	19	734
Mezza voce	19	643
Mezzo	19	643
soprano	19	640
	19	643
Middle C	19	39
Mignon	19	47
Mikado, The	19	52
Minnesingers in Germany	19	626
Minor	19	209
scale	19	641
Minuet	19	215
form	19	628
Miriam's Song	14	58
Missa Papæ Marcelli	21	202
Mito-Lydian mode	13	408
Mixo-Lydian mode	13	444
	19	283
Modern music	19	639
Modes	13	408
	19	283
	22	149
Modulation	19	289
	24	428
Molto	19	642
	19	643
Monody	13	446
	19	364
	19	626
Moonlight Sonata	19	427
Mordente	19	643
Morendo	19	643
Mosso	19	643
Motet	19	510
Motett	19	510
Motif	19	643
Motion	19	513
Moto	19	643
con	19	643
Movable dot system	25	233
Music	7	23
American	17	510
Bohemian	25	94
Byzantine Period	24	29
chamber	6	258
children's	19	631
Chinese system of	19	645
Classical Period	19	628
community	7	422
educational value of	19	631
education in	19	636
French	11	680
Gallic	11	680
German	12	569
Hebrew	14	57
Hindu	15	24
influence of World War on	17	509
Irish	15	349
Italian	15	536
modern period	24	31
Nationalist School	24	31
Norwegian	20	444

General — cont'd	Vol.	Page
period of transition	24	30
Polish	25	94
printing	19	626
psychology of	19	637
Russian	24	28
	25	94
school settlement	7	423
Scotch	24	428
scriptual	19	624
Slavic	25	94
Spanish	25	358
	18	480
	19	624
	19	643
Musical Archeologist	24	33
Musical dictionary	19	625
Musical drama	19	639
Musical elements and terms	19	639
Musical evolution	24	28
Teachers' National Association	7	424
training, need for early	19	632
My Fatherland	19	733
Nachdruck	19	643
Nænia	19	679
National Academy of Design	19	724
National Gallery, The	19	732
National hymns	19	732
National Society of Music	11	682
National Union of School Orchestras	7	423
Natural tones	19	771
Nebel	14	57
Negro melodies	20	55
Negro minstrels	20	56
Nenia	19	679
Neo-Russian school	3	65
Neumæ	20	493
Neumes	19	625
	20	99
Neums	13	445
New London	22	149
Newton	22	149
Nocturne	20	387
Nome	20	393
Non	19	643
Norma	20	403
Norwegian music	20	444
Notation	19	627
	19	643
	22	149
Notes	19	639
	20	458
Novelette	20	477
Nozze di Figaro, Le	18	319
Numerator	19	640
Numerical notation	20	493
Obligati	19	643
Obligato	19	643
Octave	19	643
	20	574
	22	149
system	19	283
Offertory	19	643
Old Hundred	20	655
	22	149
Old Testament in music	3	14
Onward! Onward!	19	734
Open tone method	28	167
Opera	20	700
	28	165
first	19	626
	20	700
buffe	19	643
national developments	20	702
Operatic music	19	628

General — cont'd	Vol.	Page
Oratorio	19	626
	20	732
	28	165
Orchestra	19	628
	20	740
evolution of	20	744
music	20	747
Orchestrion	20	749
Organ	19	643
	20	790
Organ-point	20	791
Organum	19	625
Oriel window	20	794
Orthography	21	12
Otello	19	629
Ottava	19	643
Our Land	19	733
Overtones	13	716
Overstrung scale, The	22	57
Overture	20	747
	21	60
Paderewski fund	21	93
Pange Lingua Gloriosi Corporis Mysterium	21	243
Pange Linguae Gloriosi. prælium certaminis	21	244
	21	244
Pantomime	21	250
Parlando	19	643
Parlante	19	643
Parsifal	21	347
Partials	13	716
Partial Tones	13	716
Parts	19	640
Passing tones	19	642
Passion music	21	370
Pasticcio	21	373
Pastorale	21	377
Pastoral Symphony, The	21	377
Patience	21	399
Pause	19	640
Pedal-point	20	791
	21	465
Pentatonic scale	19	624
Percussion	20	740
Pesante	19	643
Phrase	22	20
Phrasing	22	20
Phrygian mode	13	408
	13	444
	19	283
Piacere	19	643
Pianissimo	19	643
Pianoforte, compositions.	22	57
instruction	22	59
Piano music	19	628
Pieno	22	73
Pietoso	19	643
Pietra Dura	22	78
Pinafore, H. M. S.	22	92
Pipe	14	57
Pitch	19	641
	22	120
Più	19	643
Pizz	19	643
Pizzicato	19	643
Plagal	22	140
modes	13	444
	22	149
Plain song	22	149
Pochettino	19	643
Pochetto	19	643
Poco	19	643
a poco	19	643
Poëmes symphoniques	19	630
Poggiato	19	643
Poi	19	643
Polish music	25	94
Polonaise	22	325
Polyphony	13	445
	22	335
Portamento	19	644
Potpourri	22	449

General — cont'd	Vol.	Page
Precentor	22	590
Prelude	22	530
Prelude in C Sharp Minor	23	112
President's March	22	548
Prestezza, con	19	644
Prestissimo	19	644
Presto	19	644
Primitive-Period music.	24	29
Primo	19	644
Programme-music	19	630
Prussian National Hymn	19	733
Psalm tones	22	149
Psalter	22	727
Pythagoras	13	407
	19	624
Quadruple measure	19	640
Quantity	23	57
Quartet	23	64
Quartette	23	64
Quasi	19	644
Quieto	19	644
Quintet	23	97
Quodlibet	23	100
R.	19	644
R. H.	19	644
Ragtime	23	134
Rallentando	19	644
Range	23	40
Ranz des vaches	23	215
Recapitulation	19	627
Recitative	23	269
Recitativo	23	269
Recollections of country life	21	377
Repeating dots	19	640
Resolution	19	644
Rests	19	639
Retardando	19	644
Rhythm	19	644
	23	480
Rhythmics	19	639
Ricercari	19	644
Ricordanza	19	644
Rinf	19	644
Rinforzando	19	644
Rinforzato	19	644
Ring of the Nibelungen.	8	368
Rise, Oh Serbia	19	734
Ritardando	19	644
Ritardato	19	644
Ritenente	19	644
Ritenuto	19	644
Robato	19	644
Robin Adair	23	576
Rondeau	23	677
Rondo	23	677
Round	23	721
Roundclay	23	722
Royal Academy of Music	23	734
Royal College of Music.	23	735
Royal Italian March	19	733
Rubato	19	644
Rule Britannia	23	764
	26	583
Ruslan and Ludmila	24	31
Russian music	24	28
	25	94
Russian Philharmonic Society	24	31
Sacred forms	19	628
Salaam Effendi	19	733
Salmati Shah	19	734
Saludemos la Patria	19	734
Salve, O Patria	19	733
Sanctus	19	644
Sang for Norgi	19	734
Saraband	24	293
Scales	22	149
	24	346
Scandinavian music	24	350
Scherz	19	644

General — cont'd	Vol.	Page
Schersandissimo	19	644
Scherzando	19	644
Schersante	19	644
Scherzo	19	644
Scherzoso	19	644
Scholæ Cantorum	13	445
Schubert compositions	24	404
Schumann's compositions	24	406
Sciolto	19	644
Score	24	425
Scotch music	24	428
Scriptural music	19	624
Second	24	511
Segno	19	644
Segue	19	644
Seguito	19	644
Semibreves	22	149
Sempre	19	644
Senestra	19	644
Senza	19	644
Serenade	24	591
Sextet	24	630
Sextuple measure	19	640
Sf.	19	644
Sforzando	19	644
Sforzato	19	644
Sharp	19	641
Shophar	14	57
Signature of a staff	19	641
Sin'	19	644
Sinn Fein Linn Fein Mar Iadsan	19	733
Sino	19	644
Sixteenth century	25	57
Sixth Symphony	26	305
Skomorokhi	24	29
Skriabin	24	35
Slavic music	25	94
Smorzando	19	644
Solfaing	19	644
	25	240
Sol-fa, tonic sol-fa	25	233
Solfeggio	19	644
	25	240
Solmization	19	644
	25	240
Solomon Sulzer	14	58
Solo singing	13	446
Somos libres, seâmoslo siempre	19	734
Sonata	19	627
	19	644
	25	253
allegro	19	627
Song	25	254
Song for Norway	19	734
Sons of Greece, Come, Arise	19	733
Sospirando	19	644
Soprano	19	640
	19	644
Sost	19	644
Sostenuto	19	644
Sotto	19	644
Sound, art of	11	680
Sound the Trumpet	19	733
Stabat Mater	19	644
	25	468
Staccatissimo	19	644
Staccato	19	644
Staff	25	469
Star Spangled Banner	19	734
	25	490
Stave	22	149
Stentato	19	644
Stone Guest The	24	32
Strepito	19	644
Strepitoso	19	644
Stretto	19	644
Stringendo	19	644
Strophe	25	741
Symphonic poems	20	748

General — cont'd	Vol.	Page
Symphony	19	628
	20	747
	26	169
orchestra	20	741
Syncopation	26	170
Tales of Hoffman	26	223
Tanto	19	644
Tanyuska	24	31
Tarantella	19	644
Tchaikovsky orchestral works	26	305
Te Deum	26	306
Te Deum Laudamus	26	306
Temperament	19	641
	26	403
Tempo	26	409
Ten	19	644
Tenebræ	21	370
	26	412
Teneramente	19	644
Tenerezza, con	19	644
Tenero	19	644
Tenor	26	436
Tenure	19	644
Tenuto	19	644
Tetrachord	19	283
	26	455
Theme	26	507
Thorough bass	3	315
	11	204
	19	644
Tie	19	640
Time	19	640
To the Fatherland	19	734
Toccata	19	644
Tonality	26	684
Tone	19	639
	26	684
masters	19	627
Tonic	19	641
Tonus peregrinus	22	149
Town of Titipu, The	19	52
Tr.	19	644
Traesaca Regale	19	734
Transposition	19	644
Traurig	19	644
Treble	19	644
Tremolo	19	644
Triad	18	718
Trill	19	644
	27	64
Trio	27	69
Triple measure	19	640
Triplet	19	640
	27	74
Tristan und Isolde	19	629
Troubadours in France	19	626
Trovatore, Il	27	97
Tutti	19	644
Ugab	14	57
Ur Svenska Hjertans	19	734
Va	19	644
Variamento	19	644
Vart Land	19	733
Veloce	19	644
Velocissimo	19	644
Velecita, con	19	644
Vibrante	19	644
Vibrate	19	644
Vibrato	19	644
Violin technique	19	629
Vistamente	19	644
Vite	19	644
Vitement	19	644
Vivace	19	644
Vivacita, con	19	644
Vivamente	19	644
Vivezza, con	19	644
Vivo	19	644
Vocal technique	19	629
Vocalize	19	644

General — cont'd	Vol.	Page
Voice	19	640
	29	165
culture	28	165
Volante	19	644
Volta	19	644
Volti Subito	19	644
Voluntary	19	644
War Song of the Hussites	19	733
Watch on the Rhine, The	19	733
We Are Coming, Father Abraham	12	642
We Are Free, Let Us Be So Forever	19	734
Wearing of the Green, The	19	733
Wein Neerlandsch Bloed	19	734
Western school	24	33
Who Fears to Speak of Easter Week	19	733
Wilhelmus van Nassouwe	19	734
Women composers	19	630
Worcester Musical Festival	29	513
Yankee Doodle	24	760
	29	613
Young Russian school	24	32
Zampa, ou la Fiancée de Marbre	29	686
Zauberflote, Die	29	689
Zoppo	19	644

Instruments

Instruments	Vol.	Page
Accordion	1	77
Æolian	1	177
effect	22	58
harp	1	177
Alto viola	28	105
Asor	19	646
Automatic piano	22	58
Baby grand piano	22	56
Bagpipe	3	43
Balaboika	3	65
Band	3	136
military	3	136
Banjo	3	146
Baryton	3	300
	14	17
Basset-horn	3	318
Bassoon	3	319
	19	648
Bass drum	9	352
Bass viol	3	317
Ben Buabhal	15	350
Baton	3	339
Bombardon	4	199
Brasses	20	740
Brass instruments	19	649
Bugle	4	700
Buglehorn	14	383
Buine	15	350
Castanets	5	720
Che	19	645
Cheng	19	645
Cithara	6	700
Cithern	29	716
Clairseach	15	330
Clarinet	7	38
	19	648
	20	743
Clarion	7	38
Clarionet	7	38
Clavichord	7	64
	22	52
Coach horn	7	142
Concertina	7	460
Contrabass	9	273
	19	647

Instruments — cont'd	Vol.	Page
Contrafagotto	9	273
Cormorne	19	648
Corn	15	350
Cornet	7	713
Craobh ceoil	15	350
Cristoforis pianos	22	57
Cruit	15	330
Cymbals	8	364
	20	744
Decachord	8	552
Denydor	9	204
Digitorium	22	58
Dolce	9	233
Dolcemente	9	232
Double bass	9	273
	19	647
	20	742
Double bassoon	9	273
Dulcimer	9	392
	19	646
Drum	9	352
	20	744
Fagotto	10	711
Feadan	15	350
Fife	11	188
	19	648
Fitzgerald harp	15	351
Flageolet	11	323
Flue, tuning of	23	295
Flue work	15	102
Flute	11	404
	19	648
	20	743
French horn	14	383
	20	743
Glockenspiel	12	719
	20	744
Gramophone	13	120
Grand pianos	22	56
Graphophone	13	152
Guitar	13	541
Guthbuine	15	350
Harmonica	13	716
Harmonium	13	717
Harp	13	720
	14	57
	19	647
of Brian	15	351
Harpsichord	13	722
	22	53
Hautboy	13	762
Hiuen	19	645
Horn	14	383
Hunting-horn	14	383
Irish bagpipe	15	350
Irish harp	15	330
Javanese bells	19	646
Jew's harp	16	145
Kai-tien-chai	19	645
Kettle drum	9	352
	16	384
	19	646
	20	744
Keyboard	16	386
Kin	19	645
Kinnor	19	646
Kithara	19	646
Kokiri	19	646
Koto	16	534
	19	645
Lira	20	742
Lute	17	751
	19	646
	20	741
Lyre	17	783
Magoudhi	19	646
Magrepha	19	646
Mandolin	18	207
Melodeon	18	606
Mixture	19	276
Monochord	19	363

Instruments — cont'd	Vol.	Page
Musical instruments	13	419
	14	735
	19	645
Chinese	19	645
mechanical	19	649
Russian	24	29
Neble	19	646
Nefye	19	646
Oboe	19	648
	20	544
Ocarina	20	555
Ophicleide	20	706
Orchestral instruments	20	740
Organ	14	57
	20	790
tempering of	23	295
Panpipe	21	247
Pharminx	21	793
Philidor	21	740
Phonograph	21	791
	21	792
Phonoscope	21	793
Pianissimo	22	52
Piano	19	643
first	22	55
modern	22	56
player	19	649
Pianoforte	19	628
	22	52
keyboard player, first	15	283
tempering of	23	295
upright	22	56
Pianola	22	58
Picolo	19	648
	22	64
Player-piano	19	649
	22	59
continuous rolls	19	650
electrically introduced	19	650
first products	19	649
interior players	19	650
portable players	19	649
progress of	19	649
Plectrum	22	244
Pyrophone	23	45
Ravanstron	19	646
Rebec	23	264
Rebeck	23	264
Recorder	23	271
Reed	23	295
Rehab	19	646
Robin Adair harp	15	351
Sacbut	24	86
Sackbut	24	86
Sambuke	24	220
Samisen	19	646
Sancho	24	248
Sarrusophones	19	648
Saxhorn	14	383
Saxophone	19	649
	24	343
Serinda	19	646
Serpent	20	744
	24	598
Siao	19	645
Side-drum	9	352
Sistrum	19	646
Snare	20	744
Sounding-board	22	56
Spinet	19	628
	22	53
	25	413
Steam calliope	19	649
Stoc	15	350
Stringed instruments	23	295
Strings	20	740
	22	57
Sturgan	15	350
Tamboura	26	234
Tambourine	20	744

Instruments — cont'd	Vol.	Page
Tambourine	26	234
Tam-Tam	26	679
Tenor violin	28	105
Tibia	19	646
Timbrel	19	646
	26	628
Tom-Tom	19	646
	26	679
Tonometer	26	689
Tremulant	27	39
Triangle	20	744
	27	52
Trombone	27	85
Trumpet	20	743
	27	106
Tuba	27	119
Tuning-fork	27	145
Tympan	15	350
Tzetze	27	248
Uillean	15	350
Union pipe	15	350
Victrola	21	792
Vina	19	646
Viol	28	104
Viola	19	647
	20	741
	28	105
D'Amore	28	105
da Gamba	28	105
Violin	19	647
	28	106
Violoncello	19	647
	20	742
	28	107
Virginal	28	116
War trumpets	19	645
Wind instruments	29	379
Woodwind	20	740
Xylophone	20	744
	29	600
Zamar	19	646
Zither	29	716

Biographies

UNITED STATES

Biographies — cont'd	Vol.	Page
Abbey, Henry Eugene	1	13
Abbott, Emma	1	17
Adams, Suzanne	1	126
Apthorp, William Foster	2	103
Arnold, Richard	2	317
Bacon, Henry	3	23
Bartlett, Homer Newton	3	293
Beach, H. H. A.	3	371
	19	630
Bell, Digby (Valentine)	3	474
Bergmann, Karl	3	547
Bethune, Thomas	4	87
Billings, William	3	707
Bird, Arthur	3	726
Bispham, David Scull	4	22
Blauvelt, Mme. Lillian Evans	4	72
Blind Tom	4	87
Bliss, Philip Paul	4	88
Boise, Otis Bardwell	4	175
Boott, Francis	4	261
Borowski, Felix	4	282
Bowman, Edward Morris	4	366
Brandeis, Frederick	4	410
Brewer, John Hyatt	4	475
Buck, Dudley	4	664
Carl, William Crane	5	614
Cary, Annie Louise	5	691
Chadwick, George W.	6	242
	19	630
Clarke, William Horatio	7	49
Clough-Leighter, Henry	7	132
Coerne, Louis Adolphe	7	208
Conried, Heinrich	7	536

Biographies — cont'd	Vol.	Page
Converse, Frederick Shepherd	7	610
Damrosch, Frank Heins	8	433
Damrosch, Walter Johannes	8	433
De Koven (Henry Louis), Reginald	8	604
De Treville, Yvonne	9	28
Doane, William Howard	9	214
Eames, Emma	9	475
Eddy, Clarence	9	576
Elson, Arthur	10	266
Elson, Louis Charles	10	266
Emerson, Luther Orlando	10	286
Emery, Stephen Albert	10	292
Emmett, Daniel Decatur	9	210
	10	297
Farrar, Geraldine	11	48
Fink, Henry Theophilus	11	216
Fisher, William Arms	11	282
Foote, Arthur	11	458
	19	630
Foster, Stephen Collins	11	530
	22	128
Fremstad, Olive	12	60
Friedrich, John	12	105
Fry, William Henry	12	139
Furst, William	12	199
Ganss, Henry George	12	276
Gatti-Casazza, Guilio	12	338
Gebhard, Heinrich	12	351
Gemünder, August	12	367
Gemünder, George	12	367
Gibbons, James Sloane	12	642
Gilchrist, William Wallace	12	650
Gilmore, Patrick Sarsfield	12	657
Gleason, Frederick Grant	12	713
Gluck, Alma	12	725
Godowski, Leopold	12	747
Goepp, Philip Henry	12	752
Goetschius, Percy	13	6
Goldmark, Reuben	13	31
Goodrich, Alfred John	13	58
Gottschalk, Louis Moreau	13	82
Grau, Maurice	13	162
Griswold, Putnam	13	482
Hadley, Henry K.	13	610
Hale, Philip	13	634
Hays, William Shakespeare	14	22
Hemmeter, John Cohnheim	14	88
Henderson, William James	14	94
Herbert, Victor	14	120
Hoffman, Richard	14	309
Huneker, James Gibbons	14	499
Jordan, Jules	16	208
Joseffy, Rafael	16	211
Kahn, Otto Hermann	16	277
Karl, Tom	16	310
Kelley, Edgar Stilman	16	340
Kellogg, Clara Louise	16	341
Lahee, Henry Charles	16	652
Lambert, Alexander	16	672
Lang, Benjamin Johnson	16	716
Lichtenberg, Leopold	17	401
Loeffler, Charles Martin Tornov	17	592
McCormack, John	18	28
MacDowell, Edward Alexander	18	40
	19	630
Macmillen, Francis	18	84
Main, Hubert Platt	13	142

Biographies — cont'd	Vol.	Page
Maretzek, Max	18	277
Mason, Daniel Gregory	18	379
Mason, Lowell	7	422
	18	382
Mason, William	18	383
Mees, Arthur	18	592
Morgan, George Washbourne	19	450
Morgan, Tali Esen	19	454
Mosenthal, Joseph	19	498
Neuendorff, Adolph Heinrich Anton Magnus	20	98
Nevada, Emma	20	105
Nevin, Ethelbert Woodbridge	20	110
Nordica, Lillian	20	399
Oberhoffer, Emil	20	537
Oldberg, Arne	20	657
Oliver, Henry Kemble	20	666
Paine, John Knowles	19	630
	21	105
Parker, Horatio William	19	630
	21	327
Parsons, Albert Ross	21	348
Perkins, William Oscar	21	601
Phillips, Adelaide	21	762
Powell, Maud	22	476
Pratt, Silas Gamaliel	22	513
Ritter, Frédéric Louis	23	543
Rivé-King, Julie	23	546
Root, George Frederick	23	686
Rubner, Cornelius	23	749
Russell, Lillian	23	786
Schönefeld, Henry	24	387
Schulz, Leo	24	405
Schuman-Heink, Ernestine Roessler	24	407
Shelley, Harry Rowe	24	687
Sherwood, William Hall	24	707
Smith, Gerritt	25	119
Sonneck, Oscar George Theodore	25	257
Sousa, John Philip	25	272
Spalding, Albert	25	341
Stebbins, George Coles	25	561
Sternberg, Constantin Ivanovitch Elder von	25	630
Stojowski, Sigismund	25	668
Stokowsky, Leopold	25	670
Stoeckel, Gustave Jacob	25	666
Stransky, Josef	25	710
Thayer (Whitney), Eugene	26	491
Thomas, Theodore	26	574
Tourjee, Eben	26	719
Upton, George Putnam	27	586
Urmy, Clarence (Thomas)	27	597
Van der Stucken, Frank	27	668
Wetherell, Emma (Abbott)	29	228
Whitehill, Clarence Eugene	29	277
Whiting, Arthur	29	278
Whiting, George Elbridge	29	278
Witherspoon, Herbert	29	432
Wixon, Emma	20	105
Wolle, John Frederick	29	443
Woolf, Benjamin Edward	29	506
Zech, Frederick	29	691
Zeisler, Fannie Bloomfield	29	696
Zerrahan, Carl	29	705

GREAT BRITAIN

Biographies — cont'd	Vol.	Page
Adams, Stephen	18	464
Archer, Frederic	2	167
Arne, Thomas Augustine	2	310
Arnold, Samuel	2	317
Ashton, Algernon Bennet Langton	2	388
Avison, Charles	2	679
Bache, Walter	3	16
Balfe, Michael William	3	79
Bantock, Granville	3	216
Barnard, Charlotte Alington	3	263
Barnby, Sir Joseph	3	265
Barnett, John	3	267
Barnett, John Francis	3	268
Benedict, Sir Julius	3	506
Bennett, Sir William Sterndale	3	521
Best, William Thomas	3	588
Bird, William	3	727
Birde, William	3	727
Bishop, Sir Henry Rowley	4	13
Blow, John	4	118
Brema, Marie	4	463
Bridge, (John) Frederick	4	525
Broadwood, John	4	569
	22	55
Bull, John	5	8
Burney, Charles	5	57
Byrd, William	3	727
Caldicott, Alfred James	5	188
Callicott, John Wall	5	226
Carey, Henry	5	606
Carolan, Turlogh	5	646
Chappell, William	6	299
Chorley, Henry Fothergill	6	593
Clay, Frederick	7	66
Coleridge-Taylor, Samuel	7	248
Cowen, Sir Frederic Hymen	8	134
Crouch, Frederick Nicholls	8	244
Curwen, John	8	331
Curwen, John Spencer	8	331
Cusins, Sir William George	8	335
Dannreuther, Edward	8	463
Davy, John	8	515
Dibdin, Charles	9	77
Dibdin, John Thomas	9	77
Dunstable, John	19	625
Dykes, John Bacchus	9	455
Elgar, Sir Edward William	10	237
	19	630
Farrant, Richard	11	47
Fehrman, Minny	4	463
Fuller-Maitland, John Alexander	12	155
Garcia, Manuel	12	280
Gaul, Alfred Robert	12	339
Glover, Stephen	12	725
Glover, William Howard	12	725
Goddard, Arabella	12	744
Goldschmidt, Otto	13	82
Gower, Lord Ronald Sutherland	13	99
Grattan-Flood, William H.	13	162
Greene, Edwin	13	428
Grove, Sir George	13	497
Handel, George Fredrick	10	34
	13	672
	19	627
	20	701
	20	745
Hatton, John Liptrot	13	758
Henschel, Sir George	14	109
Hullah, John Pyke	14	486
Jones, Edward	16	196
Lanier Nicholas	16	732
Lanière, Nicholas	16	732
Lauder, Harry	17	99
Lawes, Henry	17	142
Lawes, William	17	143
Lehmann, Liza	17	260
Lemare, Edwin Henry	17	278
Linley, Thomas	17	460
Lloyd, Charles Harford	17	549
MacCunn, Hamish	18	34
MacFarren, Sir George Alexander	18	46
Mackenzie, Sir Alexander Campbell	18	67
Marzials, Theophile	18	373
Marzials, Theophilus	18	373
Mapleson, James Henry	18	260
Maybrick, Michael	18	464
Morris, Charles	19	473
Morley, Thomas	19	462
Novello, Vincent	20	477
Oakeley, Herbert Stanley	20	528
O'Carolan, Turlogh	5	646
	20	555
Ouseley, Frederick Arthur Gore	21	53
Parepa-Rosa	21	298
Parker, Louis Napoleon	21	329
Parry, Charles Hubert Hastings	21	346
Pauer, Ernst	21	412
Prout, Ebenezer	22	697
Purcell, Henry	10	34
	19	627
	23	24
Randegger, Alberto	23	208
Ravenscroft, Thomas	23	235
Reeves, John Sims	23	398
Russell, Henry	23	785
Santley, Charles	24	286
Shield, William	24	706
Smythe, Ethel Mary	19	630
	25	141
Stainer, John	25	471
Stanford, Charles Villiers	25	481
Stevenson, John	15	349
Sullivan, Sir Arthur Seymour	25	808
Tallis, Thomas	26	229
Tannahill, Robert	26	245
Thomas, Arthur Goring	26	571
Thomson, George	26	583

FRANCE

Biographies — cont'd	Vol.	Page
Aretino, Guido	2	193
Arnould, Sophie	2	320
Auber, Daniel François Esprit	2	529
Aubert, Louis François Marie	2	530
Audran, Edmond	2	536
Baillot, Pierre Marie François de Sales	3	53
Bemberg, Henri	3	497
Binchois, Gilles	3	714
Berlioz, Louis Hector	3	565
	11	681
	20	746
Berthet, F	11	688
Bertin, Louise Angelique	3	582
Bisson, Alexandre	4	23
Bizet, Georges	4	28
	11	683
	19	629
Bobillier, Marie	4	465
Bocquillon - Wilhelm, Guillaume Louis	4	143

Biographies — cont'd	Vol.	Page
Boieldieu, François Adrien	4	164
Bonheur, Raymond	11	686
Bordes, Charles	4	268
	11	684
Bourgault - Ducoudray, Louis Albert	4	349
	11	684
Brenet, Michel	4	465
Bruneau, Alfred	11	687
Calvé, Emma	5	237
Cambert, Robert	5	245
Campra, André	5	287
Candeille, Amélie Julie	5	494
Capoul, Joseph Amédée Victor	5	569
Castillon, Alexis de	11	682
Cavaillé-Coll, Aristide	6	184
Cavaliere, Emilio del	19	626
Chabrier, Alexis E.	6	241
	19	629
Chabrier, Emanuel	6	241
	11	685
Chaminade, Cécile Louise Stéphanie	6	268
Chausson, Ernest	11	684
Charpentier, Gustave	6	335
	19	629
Charpentier, Marc Antoine	6	336
Chelard, Hippolyte André Jean Baptiste	6	377
Chevillard, Camille	6	431
Choron, Alexandre Étienne	6	593
Clement, Edmond	7	86
Cohen, Henri	7	215
Colonne, Jules Jude	7	299
Comettant, Oscar	7	361
Delmorès, Charles	8	421
Dancla, Jean Baptiste Charles	8	449
Danican, François André	21	740
D'Arezzo, Guido	2	193
David, Félicien Cesar	8	500
	11	683
Debain, Alexandre	13	717
Debraux, Paul Émile	8	544
Debussy, Claude Achille	8	551
	11	685
	19	630
	20	746
Delibes, Clément Philibert Léon	8	621
Délibes, Leo	11	683
Della Maria, Dominique	8	623
Diemer, Louis	9	96
Dubois, Clément François Théodore	9	373
Dukas, Paul	11	684
Erard, Sébastien	10	466
Erlanger, Camille	10	479
Fauré, Gabriel Urbain	11	64
	11	685
Franck, César Auguste Jean Guillaume	11	682
	11	683
	11	761
	19	629
Gounod, Charles François	11	681
	13	84
	19	629
Grétry, André Ernest Modeste	13	463
Guilbert, Yvette	13	534
Guilmant, Felix Alexandre	13	538
Guiraud, Ernest	11	683
	13	540
Halévy, Jacques François Fromental Elie	13	635
Halle, Adam de la	19	626
Herold, Louis J. F.	14	141
Holmés, Augusta Mary Anne	14	321
	19	630
Houdard, George Louis	14	441
Hubald	14	466
Hucbald	13	445
	14	466
	19	625
Huré, John	11	688
Indy, Paul Marie Théodore Vincent d'	11	684
	15	111
	19	629
Kreutzer, Rodolphe	16	542
Lacombe, Paul	11	688
Lalo, Edouard Victor Antoine	11	682
	16	663
Lanier, Sidney	16	782
Lamoureux, Charles	16	678
Lavignac, Albert	17	120
Le Flem, Paul	11	688
Le Sueur, Jean François	17	169
Lecocq, Alexander C.	17	211
Lecocq, Charles	11	209
Lefébure-Wély, Louis James, Alfred	17	231
Lefébvre, Charles	17	232
Lenepveu, Charles Ferdinand	17	285
Léopold, Alexandre César	4	28
Lulli, Giovanni Battista	17	727
	20	701
	20	745
Lulli, Jean-Baptiste	17	727
Lully, Giovanni Battista	17	727
Lully, Jean-Baptiste	17	727
Magnard, Albéric	11	684
Malibran, Maria Félicité	18	165
	28	166
Martyne De Saint Sebastian, Le	18	344
Massenet, Jules Emile Frédéric	11	683
	18	415
	19	629
Maurel, Victor	18	449
Méhul, Etienne Henri	18	596
Messager, André Charles	18	691
Mocquereau, Dom André	19	282
Monsigny, Pierre Alexandre	19	377
Monvel, Louis Maurice Boutet de	19	421
Neri, Filippo	19	626
Nicolini, Ernesto	20	328
Nougués, Jean	20	461
Offenbach, Jacques	20	596
Onslow, George	20	693
Pasdeloup, Jules Etienne	21	365
Philipp, Isidor	21	746
Pierné, Gabriel	19	629
	22	76
Plançon, Pol	22	151
Planquette, Robert	22	153
Rameau, Jean Phillippe	11	680
	13	719
	20	745
	23	201
Reber, Napoléon Henry	23	265
Roqueplan, Joseph Etienne Camille	23	687
Roparts, Guy	11	688
Rouget de Lisle, Claude Joseph	23	720
Roze, Marie	23	738
Saint-Saens, Charles Camille	11	682
	19	629
	24	168
Thomas, Ambroise Charles Louis	19	629
	26	571
Viardot-Garcia, Michelle Pauline	28	56
Vieuxtemps, Henri	28	83
Vuillaume, Jean Baptiste	28	195
GERMANY		
Abel, Karl Friedrich	1	35
Abert, Herman Joseph	1	40
Abt, Franz	1	55
Agricola, Martin	1	242
Alvary, Max	1	459
Bach, Emmanuel	14	17
Bach, Heinrich	3	11
Bach, Johann Christian	3	12
Bach, Johann Christoph Friedrich	3	12
Bach, Johann Michael	3	12
Bach, Johann Sebastian	3	12
	20	701
	22	54
Bach, John Sebastian	20	745
Bach, Karl Philipp Emanuel	3	15
	19	628
Bach, Sebastian	10	34
Bach, Wilhelm Friedemann	3	15
Backhaus, Wilhelm	3	18
Becker, Karl Ferdinand	3	404
Beethoven, Ludwig von	3	436
	19	628
	19	630
	20	702
	20	746
Benda, Franz	3	502
Benda, Georg	3	502
Berger, Ludwig	3	545
Betz, Franz	3	596
Beyschlag, Adolf	3	604
Böhm, Theobald	4	162
Brahms, Johannes	4	394
	19	630
Brambach, Kasper Joseph	4	409
Breithaupt, Rudolf M.	22	60
Brendel, Karl Franz	4	465
Bruch, Max	4	626
Bülow, Hans Guido von	5	18
Bungert, August	5	24
Burmeister, Richard	5	53
Buxtehude, Dietrich	5	93
Chrysander, Friedrich	6	646
Cornelius, Peter	7	710
Damrosch, Leopold	8	433
David, Ferdinand	8	501
Ditters, Von Dittersdorf Karl	9	197
Ehrlich, Heinrich	10	25
Engel, Karl Dietrich Leonhard	10	335
Erk, Ludwig Christian	10	479
Ertel, Jean Paul	10	486
Fasch, Karl Friedrich Christian	11	50
Fiedler, Max	11	179
Fielitz, Alexander von	11	187
Flotow, Friedrich von	11	382
Franz, Robert	12	19
	19	628
Fried, Oskar	12	103
Friedheim, Arthur	12	104
Friedländer, Max	12	104

Biographies — cont'd	Vol.	Page
Gadski, Johanna	12	217
Ganz, Wilhelm	12	276
Genee, Richard	12	370
Gerber, Ernst Ludwig	12	494
Gerbert, Martin	12	495
Gerhardt, Elena	12	496
Gernsheim, Friedrich	12	622
Gluck, Christoph Willibald Ritter von	10	34
	12	725
	19	627
	20	701
	20	745
Graumann, Mathilde	28	166
Grell, Edward August	13	459
Gura, Eugen	13	575
Gurlitt, Cornelius	13	575
Haberl, Franz Xaver	13	604
Hallé, Sir Charles	13	646
Hauptmann, Moritz	13	761
Humperdinck, Engelbert	14	495
Kastner, Johann Georg	16	314
Kaun, Hugo	16	321
Kiel, Friedrich	16	406
Klengel, August Alexander	16	471
Kneisel, Franz	16	478
Knorr, Iwan Otto Armand	16	490
Kretschmar, August Ferdinand Hermann	16	542
Kretschmer, Edmund	16	542
Kreutzer, Konradin	16	542
Kuhlau, Friedrich	16	552
Kuhnau, Johann	16	552
Kullak, Theodor	16	553
Kürenberg, Der von	16	559
Kürenberger, Der	16	559
Lachner, Franz	16	634
Lasso, Orlando	16	759
Lassus, Orlandus	16	759
Lehmann, Lilli	17	259
Logier, Johann Bernhard	17	609
Lohse, Otto	17	612
Lortzing Gustav Albert	17	665
Marchesi, Mathilde	18	272
	28	166
Mendelssohn-Bartholdy, Jakob Ludwig Felix	18	623
	19	628
	19	630
Meyerbeer, Giacomo	19	4
Meyer-Helmund, Erik	19	4
Moscheles, Ignaz	19	494
Mozart, Leopold	19	544
Naumann, Johann Gottlieb	19	782
Nicolai, Otto	20	327
Niecks, Frederick	20	333
Nottebohm, Gustav	20	460
Prätorius, Michael	22	511
Reichardt, Johann Friedrich	23	327
Reichmann, Theodor	23	328
Reinecke, Karl	23	334
Reger, Max	23	320
Riemann, Hugo	23	515
Saltzmann, Karl	24	208
Schubert, Franz	19	628
	20	746
	24	402
Schumann, Clara Josephine Wieck	24	405
Schumann, Robert	19	628
	19	630
	24	405
Schütz, Heinrich	12	569
	19	627
Silbermann, Gottfried	22	54
Sontag, Henrietta	25	259
Spitta, Julius August Philipp	25	424
Spohr, Ludwig	25	427
Stainer, Jakob	25	471
Strauss, Richard	19	630
	25	720
Tausig, Karl	22	59
	26	286
Tietjens, Therese Johanna Alexandra	26	620
Titiens, Therese Johanna Alexandra	26	620
Wagner, Richard	19	629
	28	209
Wagner, Siegfried	28	211
Weber, Karl Maria	29	144
Weigand, August	29	160

ITALY

Biographies — cont'd	Vol.	Page
Galuppi, Baldassare	12	253
Grisi, Giulia	13	481
Isouard, Niccolò	15	424
Jommelli, Nicolò	19	194
Lablache, Luigi	16	589
Lamperti, Francesco	16	683
	28	165
Legrenzi, Giovanni	17	257
Leoncavallo, Maestro	15	536
Leoncavallo, Ruggiero	17	302
	19	630
Leo, Lionardo Oronzo Salvatore De	17	297
Leva, E. De	15	538
Logroscino, Nicolo	17	611
Luigi Pacifico	25	431
Mascagni, Pietro	15	536
	18	375
	19	630
Mario, Giuseppe	18	291
Martucci, Giuseppe	15	538
Mattei, Tito	18	440
Mercadante, Saverio	18	653
Metastasio	20	701
Monteverde, Claudio	13	719
	19	404
	19	627
	20	701
	20	741
Mugnone, Maestri	15	538
Nanini, Giovanni Maria	19	688
Orefice, Giacoma	15	537
Pacini, Giovanni	21	90
Paer, Ferdinando	21	95
Pæsiello, Giovanni	21	132
Paganini, Niccolo	19	629
	21	96
Paisiello, Giovanni	21	132
Palestrina, Giovanni Pierluigi Da	13	445
	19	625
	21	202
	25	57
Pasta, Giuditta	21	372
Patti, Adelina Maria	21	409
Patti de Munck, Carlotta	21	410
Pergolesi, Giovanni Battista	21	582
Perosi, Don Lorenzo	21	603
Piccinni, Niccolo	10	34
	22	64
Pinsuti, Ciro	22	104
Porpora, Niccolo	19	629
	22	376
	28	165
Puccini, Giacoma	15	536
	19	630
	22	786
Rolla, Alessandro	23	635
Rosa, Salvatore	23	689
Rossini, Gioachimo Antonio	15	536
	19	628
	23	710
Santi, Angelo de	24	284
Scarlatti, Alessandro	19	627
	20	701
	20	745
	24	356
Scarlatti, Domenico	19	628
Sgambati, Giovanni	15	538
	24	635
Sinigaglia, Leone	25	40
Spontini, Gasparo	25	431
Stradella, Alessandro	19	627
	25	707
Stradivari, Antonio	25	707
Steffani, Agostino, Abbate	25	609
Tamagno, Francesco	26	232
Tamberlik, Enrico	26	233
Tetrazzini, Luisa	26	456
Biographies — cont'd	Vol.	Page
Galuppi, Baldassare	12	253
Grisi, Giulia	13	481
Isouard, Niccolò	15	424
Jommelli, Nicolò	19	194
Lablache, Luigi	16	589
Lamperti, Francesco	16	683
	28	165
Legrenzi, Giovanni	17	257
Leoncavallo, Maestro	15	536
Leoncavallo, Ruggiero	17	302
	19	630
Leo, Lionardo Oronzo Salvatore De	17	297
Leva, E. De	15	538
Logroscino, Nicolo	17	611
Luigi Pacifico	25	431
Mascagni, Pietro	15	536
	18	375
	19	630
Mario, Giuseppe	18	291
Martucci, Giuseppe	15	538
Mattei, Tito	18	440
Mercadante, Saverio	18	653
Metastasio	20	701
Monteverde, Claudio	13	719
	19	404
	19	627
	20	701
	20	741
Mugnone, Maestri	15	538
Nanini, Giovanni Maria	19	688
Orefice, Giacoma	15	537
Pacini, Giovanni	21	90
Paer, Ferdinando	21	95
Pæsiello, Giovanni	21	132
Paganini, Niccolo	19	629
	21	96
Paisiello, Giovanni	21	132
Palestrina, Giovanni Pierluigi Da	13	445
	19	625
	21	202
	25	57
Pasta, Giuditta	21	372
Patti, Adelina Maria	21	409
Patti de Munck, Carlotta	21	410
Pergolesi, Giovanni Battista	21	582
Perosi, Don Lorenzo	21	603
Piccinni, Niccolo	10	34
	22	64
Pinsuti, Ciro	22	104
Porpora, Niccolo	19	629
	22	376
	28	165
Puccini, Giacoma	15	536
	19	630
	22	786
Rolla, Alessandro	23	635
Rosa, Salvatore	23	689
Rossini, Gioachimo Antonio	15	536
	19	628
	23	710
Santi, Angelo de	24	284
Scarlatti, Alessandro	19	627
	20	701
	20	745
	24	356
Scarlatti, Domenico	19	628
Sgambati, Giovanni	15	538
	24	635
Sinigaglia, Leone	25	40
Spontini, Gasparo	25	431
Stradella, Alessandro	19	627
	25	707
Stradivari, Antonio	25	707
Steffani, Agostino, Abbate	25	609
Tamagno, Francesco	26	232
Tamberlik, Enrico	26	233
Tetrazzini, Luisa	26	456

Biographies — cont'd	Vol.	Page
Tosti, Francesco Paolo..	15	538
	26	715
Usiglio	15	538
Verdi (Fortunino), Giuseppe (Francesco)...	15	536
	19	629
	20	702
	28	12
Viotti, Giovanni Battista	28	107
Wolf-Ferrari, Ermanno.	19	630
	29	440
Zarlino, Giuseppe.....	29	689
Zingarelli, Nicolo Antonio	29	713

AUSTRIA-HUNGARY

Adler, Guido.....	1	142
Albrechtsberger, Johann Georg	1	340
Ambros, August Wilhelm	1	473
Auer, Leopold.....	2	538
Bruckner, Anton.....	4	627
Brüill, Ignaz.....	4	630
Clauss-Szavardy, Wilhelmina	7	64
Clotz, Matthias.....	16	475
Czerny, Karl.....	8	384
	19	629
	22	59
Diabelli, Antonio.....	9	54
Dohnanyi, Ernst von....	9	233
Fiesch, Karl.....	11	346
Gericke, Wilhelm.....	12	497
Gerster, Etelka.....	12	625
Goldmark, Karl.....	13	31
Hallé, Wilhelmine Neruda	13	646
Hayden, Franz Joseph..	14	17
	19	628
	20	745
Hubay, Jenö.....	14	463
Hummel, Johann Nyomuck	14	493
Jankó, Paul von.....	15	613
Joachim, Joseph.....	16	148
	19	629
Kéler-Béla, Albert von..	16	337
Kienzl, Wilhelm.....	16	408
Klotz, Matthias.....	16	475
Koschat, Thomas.....	16	530
Lanner, Joseph Franz Karl	16	734
Lehar, Franz.....	17	258
Leschetizky, Theodor...	17	314
Liszt, Franz.....	1	239
	17	504
	19	629
	19	630
	22	57
Lucca, Pauline.....	17	715
Mozart, Johannes Chrysostomus Wolfgangus Theophilus	10	34
	11	202
	19	542
	19	628
	20	702
Nikisch, Arthur.....	20	344
Pauer, Ernst.....	21	412
Pleyel, Ignaz.....	22	248
Reicha, Anton Joseph...	23	327
Remenyi, Edouard.....	23	365
Richter, Hans.....	23	507
Schubert, Franz Peter..	24	403
Seidl, Anton.....	24	532
Sembrich, Marcella.....	24	546
Strakosch, Moritz.....	25	709
Strauss, Eduard.....	25	719
Strauss, Johann.....	25	720
Suppé, Franz von.....	26	45
Weingartner, Felix.....	29	172
Wolf, Hugo.....	29	437
Zichy, Géza, Count von Vásonykeö	29	707

POLAND AND RUSSIA

Arenski, Anton Stepanowitch	2	319
Arnold, Yuri von.....	2	319
Azanchevsky, Michael von	2	687
Balakirev, Mily Alexeivich	3	65
	24	32
Berlozovsky, M. S.....	24	30
Borodin, Alexander Porfiryevich	4	281
	24	33
Bortnyanski, Dmitri Stepanovitch	4	284
	24	30
Brodsky, Adolf	4	573
Chopin (François), Frédéric	6	588
	19	629
	22	57
Dargomyzhsky, Alexander Sergeyevich....	8	474
	24	32
Davidov, Karl.....	24	34
Essipoff, Annette.....	10	518
Eugen, Frederick Karl..	10	565
Elman, Mischa.....	10	260
Gabrilovitch, Ossip.....	12	215
Glinka, Mikhail Ivanovitch	12	716
	24	31
Grechaninov, Alexander Tikhonovich	13	267
Gulbranson, Ellen.....	13	543
Heifetz, Jascha.....	14	70
Hofmann, Josef.....	14	310
Ippolitov-Ivanov, Michail Michailovitch....	15	304
Jadlowker, Herman....	15	594
Juon, Paul.....	16	252
Kallinikov, Wassili Sergeivich	16	285
Lvoff, Alexei Fedorowitch	17	767
	24	36
Moszwokski, Moritz	19	509
Noskowski, Sigismund..	20	456
Pachmann, Vladimir de.	21	87
Paderewski, Ignaz Jan..	21	92
Rachmaninov, Sergei Vasilyevitch	23	112
	24	35
Reszke, Edouard de....	23	427
Reszke, Jean de.....	23	428
Rimski-Karsakov, Nicholas Andreyevitch	20	702
	23	525
	24	33
Rubinstein, Anton Gregor	23	749
	24	33
Scriabin, Alexander....	24	454
Serov, Alexander.....	24	34
Tanjeff, Serge Ivanovitch	26	240
Tchaikovsky, Peter Ilyitch	19	629
	20	746
	24	34
	26	304

THE NETHERLANDS

Arcadelt, Jacob.....	2	147
Benoit, Pierre Leopold Leonard	3	522
Culp, Julia.....	8	296
Deprés, Josquin.....	8	703
	19	625
Di Lasso, Orlando.....	19	625
	19	626
	19	627
Marenzio, Luca	19	626
Merulo, Claudio.....	19	626
Ockeghem, Joannes	19	625
	20	634
Ockenheim, Joannes....	20	634
Okehem, Joannes.....	20	634
Okengham, Joannes....	20	634
Ruckers, Hans.....	22	54
Tours, Berthold.....	26	721

SWEDEN

Afzelius, Arvid A.....	24	351
Berwald, Franz	24	351
Geijer, Erik G.....	12	358
	24	351
Hallen, Anders	24	351
Hallström, Ivar	13	649
	24	351
Hyllested, August.....	14	595
Lind, Jenny.....	17	456
Lindblod, Adolf F.....	24	351
Sjogren, Emil.....	24	351
Sodermann, August J...	24	351

OTHER COUNTRIES

Albani, Emma	1	324
Aristoxenus	2	244
	13	408
Beriot, Charles Auguste de	3	553
Bull, Ole Bornemann...	5	8
	20	445
Carreño, Teresa.....	5	664
Casals, Pablo.....	5	693
Cecilia, Saint.....	6	159
Dalcroze, Emil Jacques.	8	414
Destinn, Emmy.....	9	16
Dreyschock, Alexander..	9	335
Dussek, Jan Ladislaw..	9	427
Dvorák, Antonin	9	444
Enna, August.....	10	391
Eslava, Miguel Hilarion.	10	500
Fétis, François Joseph.	11	158
Fibich, Zdenko.....	11	165
Gade, Niels Wilhelm....	12	216
Ganz, Rudolf.....	12	276
Garcia, Manuel	12	280
	28	166
García, Manuel del Pópolo Vicente.....	12	280
Gay, Maria.....	12	346
Gerardy, Jean	12	494
Gomez, Antonio Carlos..	13	41
Grieg, Edvard.....	13	468
	19	630
Grieg, Edward Hagerup	20	445
Hartmann, Johan P. E..	24	350
Hermes	13	407
House, Edward H.....	14	444
Järnefelt, Armas.....	15	748
Jonas, Alberto.....	16	195
Kajanus, Robert.....	16	279
Kjerulf, Halfdan.....	16	469
	20	445
Kubelik, Jan.....	16	551
Lassen, Eduard.....	16	759
Lemmens, Nicholas Jacques	17	279
Limnander De Nieuwenhove, Armand Marie Guislan	17	443
Lindemann Family.....	24	351
Litolff, Henry Charles..	17	519

Biographies — cont'd	Vol.	Page
Melba, Nellie	18	602
Niedermeyer, Louis	20	333
Nordraak, Rickard	20	399
	20	445
Pacius, Friedrich	21	90
Raff, Joseph Joachim	23	131
Sibelius, Jean	19	630
	24	351
	24	766

Biographies — cont'd	Vol.	Page
Sinding, Christian	19	630
	20	446
	25	33
Smetana, Frederick	25	110
Sophocles	13	408
	25	261
Svendsen, Johan	20	445
Torrington, Frederick Herbert	26	711

Biographies — cont'd	Vol.	Page
Terpander	19	283
	26	444
Thalberg, Sigismund	26	486
Viardot-Garcia, Madame	28	166
Wallace, William Vincent	28	238
Wolf-Ferrari, Ermanno	19	630
	29	440
Ysaye, Eugene	29	670

MYTHOLOGY

General

General	Vol.	Page
Abadir	1	6
Abaris	1	7
Acestes	1	83
Achelous	1	87
Acheron	1	87
Achilles	1	88
Acis	1	93
Acontius	1	96
Acrisius	1	104
Actæon	1	106
Acvin	2	484
Adi-Buddha	1	138
Aditi	1	140
Adonai	1	149
Adonis	1	150
	26	238
Adrastus	1	152
Ægæon	4	488
Ægestus	1	83
Ægir	1	172
Ægis	1	173
Ægisthus	1	173
Ægyptus	1	173
Æneas	1	174
	23	643
Æolus	1	178
Aesculapius	1	197
Agamemnon	1	229
Aganippe	1	230
Agave	1	233
Age	1	234
Age of Bronze	1	234
	13	409
Age of Gold	1	234
	13	409
Age of Heroes	1	234
	13	409
Age of Iron	1	234
	13	409
Age of Silver	1	234
	13	409
Ages of the World	1	234
Aglaia	13	103
Agle	14	155
Ahriman	1	271
Alcmene	1	345
Alkmene	1	345
Allah	1	408
Almohades	1	432
Almoravides	1	433
Aloadæ	1	434
Aloidæ	1	434

General — cont'd	Vol.	Page
Ajax	1	293
Alastor	1	323
Alcides	14	121
Alcmæon	1	345
Alexander	21	299
Alexandra	5	707
Allegory	1	411
Alphæus	1	438
Amaterasu	24	715
Amaterasu-O-Mi-Kami	24	715
Amazons	1	470
Ambrosia	1	474
Amemit	4	231
Amenti	4	231
Ammas	22	23
Ammon	1	578
Amon-ré	1	583
Amor	1	583
Amphion	1	587
Amphitrite	1	590
Amphitryon	1	590
Amritsir	1	591
Anadyomene	1	603
Ancæus	1	651
Ancestor worship	13	515
Anchises	1	652
Ancient Rome	23	661
Ancile	1	654
Andromache	1	676
Animism	19	777
	23	345
Antæus	2	11
Anteros	10	482
Anu	2	437
Aphrodite	13	394
	13	413
	23	693
Apis	2	58
Apollo	2	64
	9	94
	13	394
	13	409
	13	413
Apotheosis	2	71
Apple of Discord	2	89
Apsu	8	170
Areois	2	191
Ares	13	409
Arethusa	14	155
Argonauts	2	224
	25	616
Argus	2	231

General — cont'd	Vol.	Page
Ariadne	2	233
Arion	2	235
Aristæus	2	235
Aristeas	2	235
Artemis	2	348
	13	394
	13	409
	21	374
Aruspices	2	371
Arval Brothers	2	371
Arvales Fratres	2	371
Arya Somaj	2	372
Ares	13	394
Asclepios	13	409
	13	410
Asen	2	381
Asgard	2	382
Ashtavakra	2	388
Ashtaroth	2	388
Ashtoreth	2	443
Ash-tree Yggdrasil	22	199
Ask	2	400
Asmodai	2	401
Asmodeus	2	401
Asperges	2	404
Assur	2	428
Assyria	2	430
Astarte	2	443
	2	487
	13	409
Astræa	2	451
Astral Spirits	2	451
Astrology	2	452
Astyanax	2	484
Asûra	21	630
Asuras	8	670
Asvin	2	484
Atalanta	2	486
Atargatis	2	487
Ate	2	490
Athamas	2	491
Atharvana	2	492
Athena	13	394
	13	400
	13	413
Athor	2	500
Atlantica	2	506
Atlantis	2	506
Atlas	2	506
Atreus	2	518
Atropos	2	519
	11	54

General — cont'd	Vol.	Page
Attis	2	529
Atys	2	529
Audhumla	2	535
Augeas	2	540
Auguries and Auspices.	2	541
Aurora	2	556
Avalon	2	671
Avatar	2	672
Azan	2	687
Azrael	2	690
Baba, Persian	3	3
Slavonic	3	3
Babi	3	5
Babylonia	2	437
Bacahs	18	765
Bacchus	3	10
	23	643
Bahaism	3	44
Bairam	3	55
Balder	3	74
	24	352
Baldur	3	74
Bana	3	130
Bast	3	320
Bat-God	18	765
Baucis	3	347
Beemah	3	609
Befana	3	442
Beiram	3	55
Beitallah	3	450
Bêl	2	437
Belief	3	469
Bellerophon	3	482
Bellona	3	490
Belphegor	3	494
Belus, Temple of	3	495
Berchta	3	537
Berserker	3	579
Bes	3	584
Bhairava	3	608
Bhavânî	27	266
Bhima	3	609
Bhrigu	3	609
Bhuta Worship	3	609
Bielobog	25	93
Bifrost	3	692
Bimah	3	609
Bjelbog	25	91
Black Art	18	115
Black Goddess of Terror	27	266
Bona Dea	4	203
Boreas	4	269
Bo-tree	22	198
Bragi	4	392
Brahma	4	393
Brahmin	4	394
Brauronia	4	421
Breast plate	8	52
Briareus	4	488
Briseis	4	545
Britomartis	4	565
Brocken	4	571
Spectre of the	4	571
Brounie	4	619
Brunhilda	4	634
Brute	4	645
Brutus	4	645
Buddhism	4	673
Buphagus	5	30
Buri	5	43
Busiris	5	75
Buto	5	83
Cabeiri	5	116
Cabiri	5	116
Cacus	5	131
Cadmus	5	134
Caduceus	5	135
Cæculus	5	136
Caf	5	142
Calchas	5	158
Calendar of the Roman Community	23	666

General — cont'd	Vol.	Page
Caliph	5	219
Calliope	5	228
Callisto	5	228
Calydon	5	241
Forest of	5	241
Calydonian Boar	5	241
Calypso	5	242
Cambles	5	245
Camilla	5	265
Canace	5	288
Canopus	5	525
Capaneus	5	541
Capnomancy	5	568
Cannibalism	5	502
Caravan	5	585
Cassandra	5	707
Cassiopeia	5	712
Cassotis	13	414
Castalia	13	414
Castor and Pollux	1	596
	6	16
Cave Temple	6	148
Cecrops	6	160
Celeus	27	76
Celma	6	176
Centaurs	6	199
Centeotl	18	765
Cephalus	6	218
Cerberus	6	223
Cerealia	6	223
Ceremonies	23	643
Ceres	23	643
	27	76
Cerez	6	224
Cestus	6	232
Chac	18	766
Châcopee, the Giant Killer	19	673
Chalchihuitlicue	18	766
Changeling	6	288
Charm	6	334
	20	507
	23	539
Charon	6	335
Charybdis	24	471
Chasidim	6	346
Chimæra	6	513
China	6	522
Chiron	6	567
Chloris	6	577
Chnum	16	393
Chornobog	25	93
Chosroes	6	594
Chresmologist	13	414
Christmas-tree	22	199
Chryseis	4	545
	6	647
Chryses	6	647
Chrysis	6	648
Chuai Tenno	16	147
Cichuapipiltin	18	766
Cimmerians	6	678
Circle, magic	6	692
Circe	6	691
Citlapol	18	766
City of the Prophet	6	724
Cleft, Ash-tree in relation to mythic ideas	22	199
Cleobis and Biton	7	87
Clio	7	116
Clotho	11	54
"Cloud Pusher," The	23	86
Cluricaune	7	139
Clytemnestra	7	141
Clytie	7	141
Coatlicue	18	766
Cockatrice	7	185
Collyridians	7	273
Commander of the Faithful	7	363
Concord	7	464
Concordia	7	464

General — cont'd	Vol.	Page
Corn mother of German harvest fields	22	199
Coronis	7	720
Corybantes	8	80
Coxcox	19	720
Creation Epic	2	437
Creon	8	180
Crescent	8	181
Cressida	8	182
Crocus	8	219
Cronus	8	226
	13	409
"Crying One"	19	674
Ctesias	24	547
Culture Gods	11	422
Cupid	8	304
	22	729
Curtius, Mettus	8	319
Cybele	8	351
	22	23
Cyclopes	8	362
Cynthia	8	367
Cynthius	8	367
Cyrene	8	371
Daduchus	8	390
Dædalion	8	390
Dædalus	8	390
Dæmons	13	515
Daeva	21	630
Dagun	8	393
Daibutsu	8	396
Daikoku	24	716
Daksha	8	413
Danae	8	445
Danaus	8	446
Dancing faun	8	449
Daphnephoria	8	470
Daphnis	8	470
Dardanus	8	473
	13	410
Day of Atonement	2	515
Day and night	11	421
Dazhbog	25	91
Death in mythology	8	540
Dedication, Feast of the	8	573
Defilement	8	587
Deianira	8	601
Deiphobus	8	602
Deities, naming the	23	643
serpent	24	598
Delos	8	625
Delphi	8	626
	13	414
Delphinia	8	628
Deluge	2	437
	8	629
	13	409
Demeter	8	636
	13	394
	13	410
	13	413
Demogorgon	8	670
Demophon	8	672
Demophoon	8	672
Derceto	8	711
	24	547
Dev	9	35
Deva	9	35
Dévi	9	37
	27	266
Devil-worship	9	39
Dhyani Buddah	9	53
Diana	9	68
	23	642
Diaspora	9	73
Didymæus	9	94
Dike	9	119
Dione	9	135
Dionysus	9	137
	13	394
	13	410
	13	413

General — cont'd	Vol.	Page
	23	698
Dionysos	3	10
Dioscuri	9	138
Dirce	9	143
Dis	9	148
Doctrine of Niyoga	2	372
Dodona	13	414
Doorga	9	262
Dôseh	9	270
Dragon	9	294
Druid	9	350
Druidical Religion	11	648
Druses	9	355
Dryad	9	362
Durga	9	424
	27	266
Ea	2	437
	8	170
Eagle	26	160
E-babbara	24	656
E-barra	24	656
Ebisu	24	716
Eblis	9	521
Ecdysia	17	97
Echo	9	543
Egeria	9	722
Ehchuah	18	766
Ehecatl	23	86
Eldorado	10	58
Electra	10	89
Electrocides	10	197
Elemental spirits	10	220
Eleusis	13	394
Elves	10	267
Elysian fields	10	269
Elysium fields	10	269
Emir al Moumenin	5	219
Enceladus	10	314
Endymion	10	324
Eostra	10	409
Ephod	8	52
Epimetheus	10	426
Erinyes	12	179
Eris	10	479
Erlking	10	479
Eros	10	482
	13	409
Erysichthon	10	487
Erytheia	14	155
Erebus	10	471
Erichthonius	10	475
Eriphyle	10	478
Estsânathlehi	10	526
Eteocles and Polynices	10	531
Euhemerus	13	408
Eumenides	12	180
Eumolpus	10	575
Euphrosyne	10	577
Europa	10	580
Euphorbus	10	577
Eurus	10	583
Euryclea	10	583
Eurydice	10	584
Eurymachus	10	584
Eurymone	10	584
Eurynome	10	584
Eurysthenes and Procles	10	584
Eurystheus	10	584
Evadne	10	588
Evander	10	588
Excalibur	10	617
Fable	10	691
Fafnir	10	710
Fairy	10	721
circle	10	721
ring	10	721
tales	10	722
Fairy God	23	85
Fairy Isle of Avalon	19	670
Fama	11	2
Fates	11	54
Father of Devils	9	521

General — cont'd	Vol.	Page
Faun	11	63
Fauna	11	64
Faunus	11	64
Feronia	11	135
Festival	17	97
Fetishes	1	545
Ficus religiosa	22	198
Fides	11	179
Fish Goddess	2	487
Fisher King	13	108
Five Ages, The	13	409
Fleece, Golden	11	341
Flora	11	362
Folk-lore	11	416
Folk-tales and myths of of the American Indians	11	418
creation myths	11	418
culture gods	11	422
day and night	11	421
migration myths	11	419
rope of the fire	11	420
seasons	11	421
Forest-god	22	199
Fortuna	11	522
Four Wind Gods	23	540
Frey	24	352
Freyr	21	706
Frost-spirit	19	671
Fu-Hi, or Fo-Hi	12	141
Fung-Huang	12	164
Furies	12	179
Future life	19	780
Fylfot	26	160
Gæa	12	218
	26	159
Galatea	12	232
Gambrinus	12	263
Ganymede	12	276
Ge	12	218
	23	643
Gems, Mythology of	12	367
Genii	12	396
Gerda	12	495
Geri and Freki	12	496
Geryon	12	625
Giants	12	637
Girdle	8	52
Glaucus	12	713
Gnomes	12	736
Gods, Roman and Greek	12	748
of the air	18	763
evolution of the	23	642
The Greek	13	396
of nature worship, functions of the	19	779
will of the	13	413
Gog and Magog	13	7
Golden Age	2	672
Gordian Knot	13	62
Gorgo	13	65
Gorgon	13	65
Götterdämmerung	13	81
Graces	13	103
Grail, The Holy	13	108
Great earth mother	23	644
Great mother	22	23
Great spirit	19	671
Griffin	13	470
Gryphon	13	470
Guardian spirit	13	515
Gucumatz	18	766
Gyges	13	587
Haarts	26	108
Hadad	13	608
Hades	13	410
	13	609
Hapi	4	231
Hathor	2	500
Hall of Appearance	2	171
Hall of Assembly	2	171

General — cont'd	Vol.	Page
Hall of Odin	13	645
Haloa	21	706
Hamadryads	13	652
Harpies	13	722
Harvest-home	22	199
Harvest May, French	22	199
German	22	199
Hathor	21	706
Heavenly fig-tree	22	190
Hebe	14	56
Hecate	14	61
Hel	24	352
Hephæstus	13	394
	13	413
Helios	14	79
Hephestos	13	409
Hera	13	394
	13	409
	13	413
	19	672
Heracles, labors of	13	410
Herakles	14	121
Hercules	14	121
Hermes	13	394
	13	410
	14	131
Hermes Trismegistus	14	132
Hero	14	135
Hero-cult	14	138
Hero-worship	14	138
Heroes, Teutonic	14	139
Hesperarethusa	14	155
Hesperia	14	155
Hesperides	14	155
Hesperus	14	155
Hether	2	500
Herodotus	13	414
Hiawatha	14	164
Hinayana	4	676
Horæ	14	381
Horus	14	422
Sun God	26	159
House of the Dawn	21	87
House of Labdacus	13	410
Huechaana	18	766
Huehueteotl	18	766
Huemac	23	83
Huistocihuatl	18	767
Huitzilopochtli	18	766
Hurakán	18	767
Huwaka	26	103
Hyacinthus	14	534
Hyades	14	534
Hydra	14	539
Hydra of Hercules	24	598
Hygeia	14	590
Hylas	14	595
Hymen	14	595
Hyperion	14	602
Hyperboreans	14	601
Iapetus	14	615
Icarius	14	620
Ida	14	654
Iisis	15	412
Images of serpents	24	598
Incantations	23	539
Indra	8	670
Ino	15	145
Io	15	288
In-yo-seki	21	705
Iphigenia	15	303
Iris	15	324
Iron Age	2	672
	15	368
Ishtar	13	409
	24	656
Isis	4	231
	23	644
the moon goddess	19	672
Island of Bimini	19	670
Island of Brazil	19	670
Island of Seven Cities	19	670

General — cont'd	Vol.	Page
Islands of the Blest	13	410
	19	670
Itzamná	18	767
Ixion	15	569
Ixtlilton	18	767
Izanagi	24	715
Jack-in-the-Green	22	199
Janus	15	618
	23	643
Japanese theory of origins	24	715
Jason	15	751
Jimmu Tenno	16	147
Jingo-Kogo	16	147
Jinn	16	147
Joan, Pope	16	149
Juno	16	252
	19	672
	23	642
Jupiter	23	529
	23	642
or Juppiter	16	252
terminus	26	443
Juventas	16	270
Ka	4	231
Kaf	5	142
Kai Khosru	6	594
Kaitabha	27	266
Kalevala	16	282
Kali	16	283
	21	705
	27	266
Kali Yuga	2	672
Kama	16	286
Kartikeya	16	311
Kelpie	16	345
Kettu	24	656
Khnum	16	393
Khosru	6	594
	16	395
Ki-Ja	16	397
Kiki-Mora	18	261
King Log	16	438
Kinich-Ahua	18	767
Knights of The Round Table	16	487
Kobold	16	503
Koto-Shiro-Nushi	24	716
Kraken	16	537
Krishna	16	543
Kronos	23	643
Kteis	21	705
Kukulcán	18	767
Labyrinth	16	624
Lachesis	11	54
	16	633
Laertes	16	647
Lakshmi	16	662
Lamia	16	676
Lancelot of The Lake	16	689
Land of Saint	19	670
Laocoön	16	738
Laomedon	16	740
Lapithae	16	742
Lares	13	515
	16	748
	23	643
Lars	16	752
Larvæ	16	755
Latinus	17	95
Latona	17	97
Laurel in art and symbolism	17	107
Lemure	16	755
Leander	14	135
Leda	17	215
Legend	17	241
Lemures	17	282
Lethe	17	320
Leto	13	409
	13	413
Liber	21	706
Libera	21	706

General — cont'd	Vol.	Page
Libertas	17	347
Light, coming of	11	419
Lilis	17	436
Lilith	17	436
Linga-Yoni	21	705
Liva	9	37
Llorona	19	674
Loke	24	352
Lokesa	4	393
Loki	17	614
Lost Atlantis	19	670
Lotus-Eaters	17	671
Lucina	17	718
Luna	17	738
Lupercalia	17	748
Lurlei	17	660
Lycaon	17	768
Lycomedes	17	771
Ma	22	23
Maat	4	231
	18	1
Macduff	18	42
Maculixochitl	18	767
Madhava	18	98
Madhu	27	266
Magic	18	115
	23	346
Magna Mater	23	645
Mahadera	18	133
Mahayana	4	676
Mahisha	27	266
Mahishasura	27	266
Maia	18	138
Malinche, the water siren	19	674
Man and nature	19	671
Manes	18	207
Manes worship	18	208
Manu	18	239
Mara	18	261
Mars	18	321
	23	643
Marsyas	18	331
Marduk	8	170
Melampus	18	599
Meleager	18	603
Melicertes	18	604
Melpomene	18	609
Melusina	18	611
Melusine	18	611
Memnon	18	613
Menelaus	18	628
Mentor	18	652
Mercurius	14	131
Mercury	18	667
Mermaid	2	567
	18	676
Meru	18	683
Mesharu	24	656
Mesnaemphthes	8	52
Metals planetary names	26	161
Metis	18	729
Metztli	18	767
Midas	19	39
Midgard	19	44
Mimir	19	144
Min	19	145
	21	706
Minerva	19	169
	26	258
Minos	19	211
Minos, King of Crete	13	410
Minotaur	19	212
Mintha	21	566
Minyas	19	215
Miölnir	26	586
Mithras	19	270
	23	645
Mitra	19	271
Mitre	8	52
Mixcoatl	18	767
Mnemosyne	19	276
Momus	19	334

General — cont'd	Vol.	Page
Moneta	19	344
Moon-mother	19	671
Moon, Mountains of the	19	427
Mopsus	19	436
Morpheus	19	472
Mumbo Jumbo	19	561
Musæus	19	613
Muses	19	618
Muspelheim	24	352
Mut	19	655
Mutunus	21	706
Mylitta	19	660
Myrmidons	19	661
Mystical symbols	23	541
Myth	19	670
bugonia	4	700
classes of	19	673
growth of	19	672
spirit of the	19	671
Mythical Islands	19	670
Mythological founders	26	591
	19	670
Mythology		
African	1	216
American	1	542
Celtic	6	180
cross in	19	780
Egyptian	10	19
fire in	19	780
German	12	544
Indian	15	11
Greek	13	408
Mexican	18	763
Persian	21	629
Roman	23	641
Scandinavian	24	351
Slavic	25	91
Myths of the American Indians	11	418
Myths, classes of	19	673
creation	11	418
growth of	19	672
migration	11	419
ritual of	19	674
Nænia	19	679
Nâga	19	679
Nala	19	685
Namouna	19	686
Nanabozho	19	674
Nanahuatl	18	767
Nanna	19	688
Nannacus	19	688
Nannakos	19	688
Napatecutli	18	767
Naraka	19	703
Narcissus	19	704
Nata	19	720
Nature worship	19	776
future life	19	780
nature gods of	19	779
serpent in	19	779
society and	19	777
theories of	19	780
Neæra	20	21
Nehallenia	20	57
Neith	20	63
Neitha	20	63
Neleus	20	63
Nemesis	20	70
Nenia	19	679
Neoptolemus	20	75
Nepenthe	20	77
Nephthys	20	77
Neptune	20	78
Nereids	20	79
Nereus	20	79
Nergal	24	656
Nerthus	20	80
Nesr	20	86
Nessus	20	86
Nestor	20	86
Nibelung	20	299
Niflheim	20	337

General — cont'd	Vol.	Page
Night	20	339
Nike	20	344
Nine Worthies	20	351
Ninib	24	656
Ninus	20	366
	24	547
Niobe	20	366
Nirvana	4	674
	20	369
Nisroch	20	370
Nisus	20	370
Nixie nix	20	379
Njord	20	380
	24	352
Norns	20	406
	24	352
Nudimmud	8	170
Nursery Lore	20	506
Nuruk	19	703
Nusku	20	508
Nut	20	508
Nymphs	20	526
Nyx	20	526
Oak-worship of the Ancient Druids	22	198
Oannes	20	531
Oceanids	20	566
Oceanus	20	568
Odin	20	584
	21	706
	24	352
Œneus	20	594
Œnone	20	594
Ojen Tenno	16	147
O-Kuni-Nushi	24	716
Old Nick	20	656
Old-Woman-Who-Never-Dies	20	656
Omacti	18	767
Onnes	24	547
Opochtli	18	767
Ops	20	717
	23	643
Orcus	9	148
	20	752
Oreads	20	772
Orestes	20	788
Orion	20	812
Orpheus	21	9
Orphics Cosmogonies	13	409
Osiris	4	231
	21	20
	21	706
Padma	21	93
Pagan Period	24	37
Palæphatus	21	134
Palamedes	21	134
Pales	21	197
Palladium	21	208
Pallas	21	209
Pan	21	223
Panchayatana	21	705
Pandora	13	409
	21	243
Panjandrum	21	246
Parajanya	21	324
Parameshti	4	393
Paris	21	299
Parthenope	21	353
Parvati	9	424
	21	360
	27	266
Pasiphae	21	366
Patala	21	379
Pax	21	431
Pegasus	21	471
Peleides	21	483
Peleus	21	483
Pelias	21	483
Pelops	21	488
Penates	13	515
	21	499
Penelope	21	506

General — cont'd	Vol.	Page
Penthesilea	21	556
People, cloud	26	102
lightning	26	103
rainbow	26	103
thunder	26	103
Perceforét	21	569
Perceval	13	108
Peri	21	582
Pernu	25	93
Persephone	13	410
	13	413
	21	610
Perseus	21	611
Perun	25	91
Phædra	21	702
Phaëthon	21	703
Phallicism	21	704
Phallos	21	705
Phallus	21	706
Philemon and Baucis	21	739
Philoctetes	21	767
Philomela	21	767
Phlegethon	21	783
Phletgyas	21	784
Phœbe	21	785
Phœbus	2	64
Phœnix	21	789
Pholus	21	789
Phorbas	21	793
Phorcus	21	793
Phorcyn	21	793
Phorcys	21	793
Phrixus	22	22
Phtha	22	745
Phyllis	22	24
Picus	22	71
Pied (pid) Piper of Hamelin, The	22	72
Pierians	22	75
Pierides	22	75
Pillars of Hercules	22	87
Pillars of Melkart	22	87
Pinakothek, Greek	22	92
Roman	22	92
Pindus	22	96
Pitamaha	4	393
Pirates of Penzance	22	115
Pirene	22	115
Pirithous	22	115
Pisacas	22	116
Pitri	22	122
Pitris	22	122
Lunar	22	122
Plants, lore of	22	198
magic properties attributed to	22	199
Pleiades	22	245
Pluto	22	261
Plutus	22	261
Polyhymnia	22	331
Polymnia	22	331
Polyphemus	22	335
Polyxena	22	339
Pomona	22	342
	23	643
Portumnus	22	419
Portunus	22	419
Poseidon	13	394
	13	410
	13	413
	22	419
Prajâpati	4	393
	22	508
Pre-Adamites	22	517
Priapos	21	706
Priapus	22	566
Priest's cap	8	52
Primitive man, thought of	19	670
Prœtus	22	632
Prometheus	13	409
	22	651

General — cont'd	Vol.	Page
Prometheus Bound, The	22	652
Prophecy	22	664
Proserpine	23	643
Proteus	22	689
Prytaneum	22	725
Psyche	22	729
Ptah	22	745
Puck	22	787
Pururavas	23	31
Pygmalion	23	38
Pylades	23	38
Pyramis and Thisbe	23	41
Pythian games	23	49
Python	23	49
Queen of the Gods	2	443
Quetzalcoatl	23	85
	23	86
	23	541
the worship of	23	86
Quirinus	23	98
	23	643
Ra	23	457
Radegast	25	91
	25	93
Ragnarök	23	133
Râhu	23	135
Rakshasas	8	671
Râma	23	199
Ramâyana	23	199
Ramman	2	487
	23	203
Rape of the Fire	11	420
Ravana	23	232
Re	23	242
Religion	23	342
Egyptian	10	19
natural	23	343
Roman	23	641
Religion of the ancient Carthaginians, The	5	683
Religious thought, evolution of	23	644
Remus	23	366
	23	677
Rhadamanthus	23	454
Rhea	23	455
	23	643
Rimmon	23	208
Rishi	23	537
Rite and Ritual	23	538
Rites, secret	23	540
Ritual	19	674
	23	538
and myth	23	538
and writing	23	539
charms, and incantations	23	539
evolution	23	541
Ritualistic symbols, Aztec	23	541
Robe of the Ephod	8	52
Roc	23	586
Roman gods, early	23	641
Roman religion	23	641
early period	23	641
Romulus	23	676
Rose in art and symbolism, The	23	693
Rosemary	23	697
Rudra	21	705
Sabbation	24	80
Sabazius	24	78
Sacred fig tree of Romulus	22	198
Sacred tree and grove	22	198
Saga	24	105
Sahe no Kami	21	705
Salii	24	184
Salus	24	209
Samas	24	655
Sambatyon	24	80

General — cont'd	Vol.	Page
Islands of the Blest	13	410
	19	670
Itzamná	18	767
Ixion	15	569
Ixtlilton	18	767
Izanagi	24	715
Jack-in-the-Green	22	199
Janus	15	618
	23	643
Japanese theory of origins	24	715
Jason	15	751
Jimmu Tenno	16	147
Jingo-Kogo	16	147
Jinn	16	147
Joan, Pope	16	149
Juno	16	252
	19	672
	23	642
Jupiter	23	529
	23	642
or Juppiter	16	252
terminus	26	443
Juventas	16	270
Ka	4	231
Kaf	5	142
Kai Khosru	6	594
Kaitabha	27	266
Kalevala	16	282
Kali	16	283
	21	705
	27	266
Kali Yuga	2	672
Kama	16	286
Kartikeya	16	311
Keipie	16	345
Kettu	24	656
Khnum	16	393
Khosru	6	594
	16	395
Ki-Ja	16	397
Kiki-Mora	18	261
King Log	16	438
Kinich-Ahua	18	767
Knights of The Round Table	16	487
Kobold	16	503
Koto-Shiro-Nushi	24	716
Kraken	16	537
Krishna	16	543
Kronos	23	643
Kteis	21	705
Kukulcán	18	767
Labyrinth	16	624
Lachesis	11	54
	16	633
Laertes	16	647
Lakshmi	16	662
Lamia	16	676
Lancelot of The Lake	16	689
Land of Saint	19	670
Laocoön	16	738
Laomedon	16	740
Lapithae	16	742
Lares	13	515
	16	748
	23	643
Lars	16	752
Larvæ	16	755
Latinus	17	95
Latona	17	97
Laurel in art and symbolism	17	107
Lemure	16	755
Leander	14	135
Leda	17	215
Legend	17	241
Lemures	17	282
Lethe	17	320
Leto	13	409
	13	413
Liber	21	706
Libera	21	706

General — cont'd	Vol.	Page
Libertas	17	347
Light, coming of	11	419
Lilis	17	436
Lilith	17	436
Linga-Yoni	21	705
Liva	9	37
Llorona	19	674
Loke	24	352
Lokesa	4	393
Loki	17	614
Lost Atlantis	19	670
Lotus-Eaters	17	671
Lucina	17	718
Luna	17	738
Lupercalia	17	748
Lurlei	17	660
Lycaon	17	768
Lycomedes	17	771
Ma	22	23
Maat	4	231
	18	1
Macduff	18	42
Maculixochitl	18	767
Madhava	18	98
Madhu	27	266
Magic	18	115
	23	346
Magna Mater	23	645
Mahadera	18	133
Mahayana	4	676
Mahisha	27	266
Mahishasura	27	266
Maia	18	138
Malinche, the water siren	19	674
Man and nature	19	671
Manes	18	207
Manes worship	18	208
Manu	18	239
Mara	18	261
Mars	18	321
	23	643
Marsyas	18	331
Marduk	8	170
Melampus	18	599
Meleager	18	603
Melicertes	18	604
Melpomene	18	609
Melusina	18	611
Melusine	18	611
Memnon	18	613
Menelaus	19	628
Mentor	18	652
Mercurius	14	131
Mercury	18	667
Mermaid	2	567
	18	676
Meru	18	683
Mesharu	24	656
Mesnaemphthes	8	52
Metals planetary names	26	161
Metis	18	729
Metztli	18	767
Midas	19	39
Midgard	19	44
Mimir	19	144
Min	19	145
	21	706
Minerva	19	169
	26	258
Minos	19	211
Minos, King of Crete	13	410
Minotaur	19	212
Mintha	21	566
Minyas	19	215
Miölnir	26	586
Mithras	19	270
	23	645
Mitra	19	271
Mitre	8	52
Mixcoatl	18	767
Mnemosyne	19	276
Momus	19	334

General — cont'd	Vol.	Page
Moneta	19	344
Moon-mother	19	671
Moon, Mountains of the	19	427
Mopsus	19	436
Morpheus	19	472
Mumbo Jumbo	19	561
Musæus	19	613
Muses	19	618
Muspelheim	24	352
Mut	19	655
Mutunus	21	706
Mylitta	19	660
Myrmidons	19	661
Mystical symbols	23	541
Myth	19	670
bugonia	4	700
classes of	19	673
growth of	19	672
spirit of the	19	671
Mythical Islands	19	670
Mythological founders	26	591
	19	670
Mythology		
African	1	216
American	1	542
Celtic	6	180
cross in	19	780
Egyptian	10	19
fire in	19	780
German	12	544
Indian	15	11
Greek	13	408
Mexican	18	763
Persian	21	629
Roman	23	641
Scandinavian	24	351
Slavic	25	91
Myths of the American Indians	11	418
Myths, classes of	19	673
creation	11	418
growth of	19	672
migration	11	419
ritual of	19	674
Nænia	19	679
Nāga	19	679
Nala	19	685
Namouna	19	686
Nanabozho	19	674
Nanahuatl	18	767
Nanna	19	688
Nannacus	19	688
Nannakos	19	688
Napatecutli	18	767
Naraka	19	703
Narcissus	19	704
Nata	19	720
Nature worship	19	776
future life	19	780
nature gods of	19	779
serpent in	19	779
society and	19	777
theories of	19	780
Neæra	20	21
Nehallenia	20	57
Neith	20	63
Neitha	20	63
Neleus	20	63
Nemesis	20	70
Nenia	19	679
Neoptolemus	20	75
Nepenthe	20	77
Nephthys	20	77
Neptune	20	78
Nereids	20	79
Nereus	20	79
Nergal	24	656
Nerthus	20	80
Nesr	20	86
Nessus	20	86
Nestor	20	86
Nibelung	20	299
Niflheim	20	337

General — cont'd	Vol.	Page
Night	20	339
Nike	20	344
Nine Worthies	20	351
Ninib	24	656
Ninus	20	366
	24	547
Niobe	20	366
Nirvana	4	674
	20	369
Nisroch	20	370
Nisus	20	370
Nixie nix	20	379
Njord	20	380
	24	352
Norns	20	406
	24	352
Nudimmud	8	170
Nursery Lore	20	506
Nuruk	19	703
Nusku	20	508
Nut	20	508
Nymphs	20	526
Nyx	20	526
Oak-worship of the Ancient Druids	22	198
Oannes	20	531
Oceanids	20	566
Oceanus	20	568
Odin	20	584
	21	706
	24	352
Œneus	20	594
Œnone	20	594
Ojen Tenno	16	147
O-Kuni-Nushi	24	716
Old Nick	20	656
Old-Woman-Who-Never-Dies	20	656
Omacti	18	767
Onnes	24	547
Opochtli	18	767
Ops	20	717
	23	643
Orcus	9	148
	20	752
Oreads	20	772
Orestes	20	788
Orion	20	812
Orpheus	21	9
Orphics Cosmogonies	13	409
Osiris	4	231
	21	20
	21	706
Padma	21	93
Pagan Period	24	37
Palæphatus	21	134
Palamedes	21	134
Pales	21	197
Palladium	21	208
Pallas	21	209
Pan	21	223
Panchayatana	21	705
Pandora	13	409
	21	243
Panjandrum	21	246
Parajanya	21	324
Parameshti	4	393
Paris	21	299
Parthenope	21	353
Parvati	9	424
	21	360
	27	266
Pasiphae	21	366
Patala	21	379
Pax	21	431
Pegasus	21	471
Peleides	21	483
Peleus	21	483
Pelias	21	483
Pelops	21	488
Penates	13	515
	21	499
Penelope	21	506

General — cont'd	Vol.	Page
Penthesilea	21	556
People, cloud	26	102
lightning	26	103
rainbow	26	103
thunder	26	103
Perceforêt	21	569
Perceval	13	108
Peri	21	582
Pernu	25	93
Persephone	13	410
	13	413
	21	610
Perseus	21	611
Perun	25	91
Phædra	21	702
Phaëthon	21	703
Phallicism	21	704
Phallos	21	705
Phallus	21	706
Philemon and Baucis	21	739
Philoctetes	21	767
Philomela	21	767
Phlegethon	21	783
Phletgyas	21	784
Phœbe	21	785
Phœbus	2	64
Phœnix	21	789
Pholus	21	789
Phorbas	21	793
Phorcus	21	793
Phorcyn	21	793
Phorcys	21	793
Phrixus	22	22
Phtha	22	745
Phyllis	22	24
Picus	22	71
Pied (pid) Piper of Hamelin, The	22	72
Pierians	22	75
Pierides	22	75
Pillars of Hercules	22	87
Pillars of Melkart	22	87
Pinakothek, Greek	22	92
Roman	22	92
Pindus	22	96
Pitamaha	4	393
Pirates of Penzance	22	115
Pirene	22	115
Pirithous	22	115
Pisacas	22	116
Pitri	22	122
Pitris	22	122
Lunar	22	122
Plants, lore of	22	198
magic properties attributed to	22	199
Pleiades	22	245
Pluto	22	261
Plutus	22	261
Polyhymnia	22	331
Polymnia	22	331
Polyphemus	22	335
Polyxena	22	339
Pomona	22	342
	23	643
Portumnus	22	419
Portunus	22	419
Poseidon	13	394
	13	410
	13	413
	22	419
Prajâpati	4	393
	22	508
Pre-Adamites	22	517
Priapos	21	706
Priapus	22	566
Priest's cap	8	52
Primitive man, thought of	19	670
Prœtus	22	632
Prometheus	13	409
	22	651

General — cont'd	Vol.	Page
Prometheus Bound, The	22	652
Prophecy	22	664
Proserpine	23	643
Proteus	22	689
Prytaneum	22	725
Psyche	22	729
Ptah	22	745
Puck	22	787
Pururavas	23	31
Pygmalion	23	38
Pylades	23	38
Pyramis and Thisbe	23	41
Pythian games	23	49
Python	23	49
Queen of the Gods	2	443
Quetzalcoatl	23	85
	23	86
	23	541
the worship of	23	86
Quirinus	23	98
	23	643
Ra	23	457
Radegast	25	91
	25	93
Ragnarök	23	133
Râhu	23	135
Rakshasas	8	671
Râma	23	199
Ramâyana	23	199
Ramman	2	487
	23	203
Rape of the Fire	11	420
Ravana	23	232
Re	23	242
Religion	23	342
Egyptian	10	19
natural	23	343
Roman	23	641
Religion of the ancient Carthaginians, The	5	683
Religious thought, evolution of	23	644
Remus	23	366
	23	677
Rhadamanthus	23	454
Rhea	23	455
	23	643
Rimmon	23	203
Rishi	23	537
Rite and Ritual	23	538
Rites, secret	23	540
Ritual	19	674
	23	538
and myth	23	538
and writing	23	539
charms, and incantations	23	539
evolution	23	541
Ritualistic symbols, Aztec	23	541
Robe of the Ephod	8	52
Roc	23	586
Roman gods, early	23	641
Roman religion	23	641
early period	23	641
Romulus	23	676
Rose in art and symbolism, The	23	693
Rosemary	23	697
Rudra	21	705
Sabbation	24	80
Sabazius	24	78
Sacred fig tree of Romulus	22	198
Sacred tree and grove	22	198
Saga	24	105
Sahe no Kami	21	705
Salii	24	184
Salus	24	209
Samas	24	655
Sambatyon	24	80

General — cont'd	Vol.	Page
Sarapis	24	578
Sarpedon	24	305
Saruta-hiko	21	705
Saturn	23	643
	24	313
Satyrs	24	316
Scandinavian mythology	24	351
Scarab	26	159
Scylla	24	471
Sea-serpent	24	476
Seasons, The	11	421
Serapis	24	578
Sesha	24	606
Semele	24	546
Semiramis	24	547
Shamash	2	487
	24	655
Shamanism	24	655
Sheilana-gig	21	706
Shivaism	24	738
Simmas	24	547
Sin	2	487
	24	656
Sibyl	24	776
Sibylline books	23	644
	24	776
Sigurd	24	805
Silenus	24	810
Sippara	24	656
Sirens	25	46
Siva	4	393
Skanda	16	311
Soma-sacrifice	4	394
Somnus	25	253
Sosthenia	25	616
Sotya Yuga	2	672
Spirits of the Forest	19	674
Stabrobates	24	547
Stribog	25	91
Styx	25	760
Sunfather	19	671
Sun-god	2	64
	18	767
	21	629
Superstition	26	41
of the World	26	41
Africa	26	41
American Indian	26	41
Arabia	26	41
Arctic Regions	26	41
Australia	26	41
Bohemia	26	41
Brazil	26	42
China	26	42
Cuba	26	42
Egypt	26	42
England	26	42
Fiji Islands	26	42
France	26	42
Germany	26	43
Greece	26	43
Hawaii	26	43
Iceland	26	43
India	26	43
Ireland	26	43
Isle of Man	26	43
Italy	26	43
Japan	26	44
Java	26	44
Mexico	26	44
Norway	26	44
Persia	26	44
Peru	26	44
Philippine Islands	26	44
Poland	26	44
Romany	26	44
Rumania	26	44
Russia	26	44
Samoa	26	44
Scotland	26	44
Solomon Islands	26	45
Spain	26	45
Sweden	26	45
Switzerland	26	45
Turkey	26	45
United States	26	45
Superstitions in regard to animals	1	545
Susano	24	715
Sussistinnako	26	102
Svantevit	25	91
Svarog	25	91
Sviatovit	25	91
	25	93
Svintovint	25	93
Swastika	26	160
Swayambhu	4	393
Sylphs	26	158
Sylvanus	26	158
Symbol	26	159
Symbolism	26	159
apogee	26	161
Sympathetic affinities between plant and animal life as a source of mythic ideas	22	199
Syrinx	26	198
	26	199
Taboo	19	778
Tages	26	214
Tammuz	26	238
Tantalus	26	250
Tantra	26	250
Tar prajapatis	22	122
Tartarus	9	148
	26	277
Telemachus	26	361
Temple of Apollo Triopis	23	473
Tepeyollotl	18	767
Terpsichore	26	444
Tezcatlipoca	18	767
Thalia	13	108
	26	486
Theban cycles	13	410
Themis	26	507
Theogony	26	512
Theseion	26	547
Theseum	26	547
Theseus	26	547
adventures of	13	410
Thesmophoria	21	706
Thetis	26	550
Theurgy	26	550
Thor	21	706
	24	352
	26	586
Thoth	14	132
	23	539
	26	590
Thought of primitive man	19	670
Thunder-bird	26	600
Tiamat	8	170
Tiresias	26	644
Titania	26	646
Titans	26	647
Tithonus	26	648
Tinia	26	108
Tlaelquani	18	768
Tlalocs	18	768
Tlapallan	26	656
Tlapotlazenan	18	768
Tohil	23	86
Totem pole	26	716
Totemism	23	345
	26	715
Totem superstition	26	716
Transformation	19	674
Transmigration	19	778
Tree-spirit	22	199
Tree worship	27	36
Triad	4	393
Triglaff	25	91
Trimurti	4	393
Tripod	27	74
Triptolemus	27	76
Tristram	27	77
Thristan	27	77
Tristrem	27	77
Triton	27	79
Trojan	13	410
Trojan War, The	27	84
Trolls	27	85
Trophonius	27	87
Tsuki-Yomi	24	715
Tum	4	231
Tung-Ak	24	655
Tunic	8	52
Typhon	24	598
	27	243
Tyr	27	244
Uayayab	18	768
Uma	27	266
Umritsir	1	591
Unicorn	27	282
Urania	27	588
Uranus	13	409
	27	589
Valetudo	14	590
Valhal	28	226
Valhalla	27	648
	28	226
Valkyr	28	232
Valkyries	27	649
Vayu	27	706
Venus	28	8
Verethraghna	21	630
Vesta	23	643
	28	44
Vishnu	4	393
Viswâmitra	28	145
Volsungs	28	175
Votân	18	768
Vrihaspati	28	194
Vulcan	28	195
Wakonda	28	218
Walhalla	28	226
Walkyrie	28	232
Walpurgis Night	4	571
War God	28	679
Wayland the Smith	29	121
Weendigo	29	158
Werewolf	29	195
White Lady	29	271
Wifiheim	24	352
Wodan	29	435
Woden	14	360
	29	435
Worship of trees, The	22	198
Wuchousen	29	575
Wuotan	29	435
Xipe	18	768
Xmucane	18	768
Xolotl	18	768
Xpiyacoc	18	768
Yacatecutli	18	768
Yama	21	630
Ygdrasil	24	352
	29	636
Yggdrasill	29	636
Ymer	24	352
Ymir	29	638
Yolcuatl	23	86
Yom Hakkippurim	2	515
Zadkiel	29	680
Zephyr	29	703
Zephyrus	29	703
Zeus	13	409
	13	412
	26	159
	29	705

See also **Customs and Social Life; Education; Ethnology and Anthropology, History; Language and Literature; Philosophy; Psychology; Religion; Sociology.**

NAVAL SCIENCE AND HISTORY

General	Vol.	Page
Admiral	1	144
Admiralty	1	145
Admiralty and maritime jurisdiction, American	1	145
British	1	145
Ammunition	1	581
ships	20	4
Ancient galley	20	16
Antitorpedo boats	2	41
Argentine navy	2	221
Armament	2	265
Armed ship	2	266
Armored cruisers	20	4
French	28	753
Italian	28	754
Japanese	28	755
Russian	28	756
United States	28	747
Armor plate	2	275
bending	2	276
cementation process	2	276
dry carbon process	2	276
final test	2	277
gas-carbonizing process	2	276
hardening	2	277
Harvey process	2	275
Krupp process	2	275
manufacture	2	276
planing	2	276
Schneider process	2	275
Arms	2	279
Army and Navy General Hospital	2	291
Army and navy manœuvers	2	291
Army and Navy Union	2	292
Army War College	19	795
Apprentices	27	522
Attaché	2	519
Automobile torpedo	2	606
	26	706
Bar shot	3	226
Battle cruisers	20	4
	28	728
British	28	722
	28	750
	28	761
design and development of	28	728
German	28	739
	28	758
	28	763
Japanese	28	738
	28	755
	28	763
principal characteristics of	28	732
Russian	28	756
	28	763
United States	28	732
	28	747
	28	763
Battle line	20	4
Battleships	20	4
	28	728
Argentine	28	726

General — cont'd	Vol.	Page
Austrian	28	739
	28	757
	28	763
Brazilian	28	725
British	28	727
	28	728
	28	750
	28	760
	28	763
armament, etc.	28	730
	28	731
design and development	28	728
French	28	741
	28	753
	28	763
German	28	738
	28	739
	28	758
	28	763
Italian	28	741
	28	754
	28	763
Japanese	28	741
	28	755
	28	763
Russian	28	756
	28	763
United States	28	719
	28	720
	28	721
	28	738
	28	746
	28	747
	28	763
principal characteristics of	28	732
Blockade	4	98
Blue Peter	4	126
Bombardment	20	4
Boom	4	246
Bounties	4	343
Brazilian navy	4	443
Breech mechanisms	13	570
Brethren of the Coast	4	654
British dock yards at Portsmouth	13	322
British navy	13	322
administration	13	326
policy of	13	326
Broadside	4	568
Broadwell ring	13	570
Buccaneers	4	653
Captain	5	573
Chest, naval, British	6	426
Chilean navy	6	509
Chinese navy	6	524
Coast artillery, corps (U. S. N.)	19	795
Coast guard, British	7	169
Cockpit	7	187
Commodore	7	408
Convoy	7	616
Corvette	8	29
Cruiser	8	255
Cruisers, British	28	763
French	28	763
Japanese	28	763
large light	28	733

General — cont'd	Vol.	Page
light	28	735
Russian	28	763
United States	28	763
Cuban navy	8	284
Cutlass	8	340
Cutter	8	343
De Bange gas check	13	570
Demons of the Sea	4	653
Depth bomb	19	92
Destroyers	20	4
	28	735
Austrian	28	757
British	28	736
	28	752
	28	763
armament, etc.	28	737
French	28	753
	28	763
German	28	759
Italian	28	754
	28	763
Japanese	28	755
	28	763
Russian	28	756
	28	763
United States	28	735
	28	737
	28	748
	28	763
armament, etc.	28	737
Destroyer tenders	20	4
Discipline	9	152
Enlistment	10	390
Ensigns	11	308
Escort	10	496
Executive officer	10	627
Fighting ships, effective, built and building	28	763
Filibustiers	4	653
Fireships	11	248
Floating battery	11	358
Flotilla leaders, British	28	751
	28	761
Italian	28	754
French navy	11	733
bases	11	734
composition of fleet	11	733
disposition of	11	734
Ministry of Marine	11	735
organization	11	734
Frigate	12	110
Fuel ships	20	4
Galley	12	245
German navy	12	608
organization	12	610
personnel	12	611
Great Lakes Training Station	19	795
Gunboats	20	4
British, China class	28	762
Gunner's quadrant	13	550
Gunnery	13	550
Gunpowder	13	553
Guns	13	556
anti-aircraft	13	566
history and development	13	556

General — cont'd	Vol.	Page
naval	13	559
	13	568
Heising multiplex wireless	26	392
Holland No. 9	25	770
Hospital ships	14	433
	20	4
civilian	14	433
International naval conference	4	99
Japanese Naval Academy	15	728
Japanese naval operations in the Russo-Japanese War	15	732
Japanese navy	15	724
administration	15	725
constructors	15	727
engineering officers	15	727
executive officers	15	726
expenditures	15	728
hydrographical engineers	15	727
medical officers	15	727
ordnance officers	15	727
paymasters	15	727
personnel	15	726
petty officers and men	15	727
stations and dock yards	15	725
warrant officers	15	727
Japan Sea, battle of	15	734
Keelhauling	16	333
Landing force	16	701
Landing party	16	701
Landsman	16	712
Large light cruisers	28	733
British	28	733
	28	761
Light cruisers	28	735
British	28	734
	28	735
	28	750
	28	761
German	28	758
Japanese	28	755
Russian	28	756
Lighthouse Board (U. S.)	27	522
Manila Bay, battle of	27	442
Man-of-War	18	193
Marine engineers	19	788
Marooners	4	654
Marque, letter of	18	308
Massachusetts Nautical School	19	783
Mate	18	424
Mexican navy	18	760
Midshipman	19	45
Mine depot ships	20	4
Mine layers	20	4
	28	744
Mine planters	19	152
Mine sweepers	28	744
British	28	762
Mine-sweeping	19	153
Mines, fixed	25	761
floating	25	761
naval	19	799
Monitors	28	723
	28	737
British	28	762
Mosquito fleet	19	508
Naval Academy, Japanese	15	728
United States	19	785
U. S. admission of students	19	785
U. S. buildings	19	786
U. S. course of study	19	786
Naval aeronautics	19	787
Naval architects	19	788
Naval architecture	19	788
Naval auxiliary vessels	19	793
Naval basins	19	792
Naval constructors	19	794
Naval dockyards, Japanese	15	725
Naval education, English	19	796
French	19	796
German	19	796
Italian	19	796
United States	19	794
Naval gunnery, modern	13	560
Naval Home (United States)	27	522
Naval Institute, United States	19	797
Naval Intelligence	19	797
Naval law	19	797
Naval manœuvres	2	292
Naval militia	19	797
Naval mines	19	799
Naval observatory, United States	20	11
Naval officers (U. S.), retirement of	27	522
Naval operations	20	4
Naval Order of the United States	20	3
Naval policy, United States	27	522
Naval school, Brest	19	796
Naval schools	20	3
Naval ships, buoyancy of	19	780
resistance of	19	791
rolling of	19	790
speed of	19	791
stability of	19	790
structural strength	19	789
Naval tactics	20	3
Naval Training Station, Great Lakes	19	795
Naval vessels, building materials	19	792
(U. S.) tabulation of weights	28	724
Naval Veterans, National Association of	20	5
Naval War College, United States	19	795
	20	5
Italian	19	796
Navies, fighting order of	20	3
modern	20	17
of the Middle Ages	20	16
of the world, effective fighting ships built and building 1919	28	763
Navigation	20	7
Navy Department, United States	20	18
Navy, history of	20	15
League of the United States	20	15
organization, United States	27	521
Register	20	18
United States	27	517
(U. S.) 1906-1911	28	763
	28	764
(U. S.) 1912-1916	28	764
(U. S.) 1917-1919	28	765
(U. S.) 1 October 1919	28	765
(U. S.), Artificer School	19	795
(U. S.), Board of Inspection and Survey	27	522
(U. S.), Bureau of Construction and Repair	27	521
(U. S.), Bureau of Equipment	27	521
(U. S.), Bureau of Medicine and Surgery	27	521
(U. S.), Bureau of Navigation	27	521
(U. S.), Bureau of Ordnance	27	521
(U. S.), Bureau of Steam Engineering	25	553
	27	521
(U. S.), Bureau of Supplies and Accounts	27	521
(U. S.), Bureau of Yards	27	521
(U. S.) chronological history of	27	523
(U. S.), Commissary School	19	795
(U. S.), Coppersmith School	19	795
(U. S.), Diving School	19	795
(U. S.), early history	27	517
(U. S.), Electrical School	19	795
(U. S.), Engineer Corps	10	345
(U. S.), enlisted men	27	522
(U. S.), flag officer	11	310
(U. S.), gun pointers	27	522
(U. S.), Hospital Corps	14	432
(U. S.), Hospital Corps, Training Schools	19	795
(U. S.) in Civil War	27	519
(U. S.) in War of 1812	27	518
(U. S.), Judge-Advocate General	27	521
(U. S.), Machinist School	19	795
(U. S.), Medical Corps	27	522
(U. S.), modern	27	520
(U. S.), Musician School	19	795
(U. S.), organization	27	521
(U. S.), Pay Corps	27	522
(U. S.), personnel	27	522
(U. S.), petty officers	27	522
(U. S.), reorganization of	27	519
(U. S.), retired officers	27	522
(U. S.), Torpedo School	19	795
(U. S.), uniforms	27	285
(U. S.), Yeoman School	19	795
yard	20	18
Nautical training schools	19	782
New York State Nautical School	19	783
Patrol boats, British	28	761
Pennsylvania Nautical School	19	783
Periscope	21	596
	25	773
Petty officer	21	698
Petty officers, Japanese naval	15	727
Pinnace	22	103
Pole-axe	22	300

General — cont'd	Vol.	Page
Prize-money	22	610
Privateer	22	611
Protected cruisers	20	4
Quartermaster	23	63
Raids	20	4
Rank	23	211
Ransom	23	214
Reconnaissances	20	4
Repair ships	20	4
Royal Naval College of Canada	23	736
Russian navy	24	51
Scout cruisers	20	4
Italian	28	753
United States	28	747
Ships, effective fighting, of principal navies	28	763
Signals, Naval	24	800
Sloops, British	28	762
Smoke-ball	25	135
Spanish navy	25	328
Squadron	25	462
Staff	25	460
Strategy	20	5
Submarine chasers	28	744
Eagle class	28	744
Submarine mines	25	761
automatic	25	762
electrical contact	25	762
fixed	25	762
floating	25	762
observation	25	762
Submarine signaling	25	762
receiving devices	25	764
sound-producing devices	25	764
Submarine tenders	20	4
Submarine torpedo	26	706
Submarine warfare	25	765
	28	447
	28	478
	28	619
Submarines	20	4
	25	760
	28	740
air regenerating system	25	772
air system	25	772
anchor year	25	772
armament	25	773
British	28	740
	28	751
	28	760
construction of	25	771
development of	25	760
diving gear	25	772
engines	25	771
equipment of	25	769
	25	771
external fittings	25	772
French	28	768
German	28	742
	28	743
	28	759
heating system	25	772
history of	25	760
hulls	25	771
in the World War	25	774
Italian	28	763
Japanese	28	763
living arrangements	25	773
navigating appliances	25	772
ocean-going	15	285
periscopes	25	773
rangefinding	25	773
refrigerating system	25	772
Russian	28	763
steering gear	25	772
tank system	25	772

General — cont'd	Vol.	Page
United States	28	749
	28	763
water-piping system	25	772
Supply ships	20	4
Surgeon in the navy	26	73
Swedish navy	26	117
Telegraphy, submarine sound	26	344
Torpedo-boat destroyers, British	28	761
Torpedo boats	26	704
Torpedo cruisers, Austrian	28	757
Torpedo drag	26	705
Torpedoes	26	705
Transport	27	8
Tugboats	20	4
Turkish navy	27	183
Union Jack	27	287
United States Naval Reserve Force	27	556
United States Naval War College	19	795
Visitation, right of	28	141
War College, United States	27	522
Warrant officer	28	700
Warships, ancient	28	717
Austro - Hungarian, lost in World War	28	757
British	28	724
British, lost in World War	28	766
French, lost in World War	28	766
	28	767
German, lost in World War	28	767
Italian, lost in World War	28	767
Japanese, lost in World War	28	767
lost in World War	28	766
modern	28	718
modern, propelling machinery	28	725
Russian, Lost in World War	28	767
Turkish, lost in World War	28	767
United States	28	724
United States, lost in World War	28	766
Wireless telegraphy	26	345
Wireless telephony	26	384
World War, naval operations	28	439
naval operations in Mediterranean	28	446
North Sea operations	28	442
submarine campaign	25	765
	28	447
	28	478
	28	619

Naval History

UNITED STATES

Naval History — cont'd	Vol.	Page
Alabama, sinking of	16	325
Albermarle, The	1	330
	22	263
Alfred	16	198
Alliance	4	215
	16	199
America and England, first naval battle between	22	239
Argonaut	25	771
Argonaut Junior	25	771
Argus and Pelican, battle of	2	231

Naval History — cont'd	Vol.	Page
Black Warrior	4	39
Bonhomme Richard	4	215
	16	199
Bonne Citoyenne	14	385
Carolina	20	159
Caroline, The	5	647
Chesapeake	27	370
Chesapeake and Leopard	6	421
Chesapeake and Shannon, battle of	6	422
Clermont, The	7	91
Columbia	4	295
Confederate fleet	7	10
Constellation	7	562
	14	496
Constitution, The	7	570
	14	496
	27	518
Continental navy	7	586
David	25	769
Dewey's squadron	27	441
Duc de Duras	16	199
Enterprise, The	10	400
Essex and Alert	10	517
Essex, Phœbe and Cherub	10	517
First naval flag	16	198
Gaspee, The	12	331
Guerrière	27	518
Hampton Roads, battle of	13	670
Hatteras Inlet, capture of	13	757
Hartford	16	416
Hornet, The	14	385
Hundley	25	769
Intrepid	21	733
Kearsarge	16	328
Louisiana	20	159
Maine	8	152
	18	149
	27	440
Manila Bay, battle of	27	442
Merrimac	7	10
	14	306
	18	681
	27	446
Miami, The	22	263
Mississippi squadron	17	225
Monitor	7	10
	13	482
	19	556
Monitor and Merrimac	19	557
Monocracy	16	350
Narval	25	771
Nashville	19	714
Nautilus	25	769
Navy, United States	27	517
	27	523
Navy, United States modern	27	520
New Orleans, campaign and battle of	20	158
capture of	20	159
Old Ironsides	7	570
	20	655
Peacock	14	385
Penguin	14	385
Philadelphia, destruction of the	21	733
Port Royal Bay, battle of	22	385
Port Royal Ferry, engagement at	22	386
President and Endymion, battle of	22	347
President and Little Belt, affair of	22	548
Providence	16	198
Ranger	16	199
Revolutionary War, first sea fight of	27	523

Naval History — cont'd	Vol.	Page
Saratoga, The	24	293
Schley-Sampson controversy	24	380
Serapis	4	215
Shenandoah, The	24	692
Southern ports, blockade of	27	417
Spanish-American War, naval operations	4	99
	27	439
Speedwell, The	25	385
Star of the West	25	491
Sussex	27	537
Union fleet	7	10
United States and Macedonian, battle of	27	554
United States navy	27	440
Virginius	25	341
Virginius affair	28	130
War with Spain	14	306
World War, naval operations	28	439
See also other sections under **Naval Science and History.**		

GREAT BRITAIN

Agamemnon	13	325
Annus Mirabilis	2	4
Armed neutrality	13	325
Beagle, The	3	375
Cape Trafalgar	5	549
Coronel, battle of	7	720
Downs, The	9	288
Fryatt case	12	139
Gibraltar, capture of	13	324
Golden Hind, The	13	27
Grand Fleet	28	440
Great Eastern	13	356
Great Harry	13	323
	13	357
Home fleet	28	440
Jenkin's Ear, war of	13	324
	16	13
Jutland Bank, battle of	16	268
	28	445
Leopard	27	370
London, Declaration of	4	100
Margaretta	18	279
Navy, British	13	322
Old Dreadnought	4	285
Perseus	16	336
Press-gang	22	557
Royal George	23	735
Sovereign of the Seas	13	325
Spanish Armada	13	323
Trafalgar, battle of	13	325
Warrior	13	325
World war, naval operations	28	439
See also other sections under **Naval Science and History.**		

OTHER COUNTRIES

Ancient galley, the	20	16
Ancona, The	1	655
Bireme	4	3
Bremen, The (submarine)	9	35
Bucentaur	4	655
Cárdenas, naval action at	5	599
China-Japanese war	15	725
Declaration of Paris of 1856	4	99
Deutschland, The (submarine)	9	35
Dutch courage	9	434
Emden	28	441
Goeben and Breslau	12	751
Gustave Zédé	25	770
Gymnote	25	770
Horn Reefs	14	383
Inscription, maritime	11	735
Invincible armada	14	281
Ironclad squadron	11	734
Japan Sea, battle of	15	734
Jutland Bank, battle of	16	268
	28	445
Kanda Maru	16	317
Karlsruhe	28	441
Koenigsberg	28	441
Kronprinz Wilhelm	28	441
Kublai's armada	15	724
Lepanto, battle of	17	306
	20	17
Libau, bombardment of	28	440
Montojo's ships	27	441
Naval squadrons, Russian	24	52
Navy, French	11	733
German	12	608
Italian	28	384
Japanese	15	724
Mexican	18	760
Russian	24	51
	24	52
Spanish	25	328
	27	440
Swedish	26	117
Plongeur	25	770
Russo-Japanese war	4	99
Salamis, battle of	13	372
Sinope	25	42
Spanish armada	2	263
Trireme	27	76
War of Restoration	15	725
Weihaiwei, operations at	29	171
World War, naval operations	28	439
See also other sections under **Naval Science and History.**		

Biographies

UNITED STATES

Biographies — cont'd	Vol.	Page
Alden, James	1	353
Allen, William Henry	1	416
Ammen, Daniel	1	577
Arnold, Benedict	7	587
Babcock, Wasington Irving	3	5
Bache, George M	3	15
Badger, Oscar L	3	34
Bagley, Worth	3	41
Bailey, Theodorus	3	51
Baird, George Washington	3	56
Bainbridge, William	3	54
Balch, George Beall	3	74
Baldwin, Charles H	3	76
Bancroft, George	19	795
Barker, Albert Smith	3	255
Barney, Joshua	3	268
Barron, James	3	281
Barron, Samuel	3	281
Barry, John	3	285
Bartlett, John R	3	293
Belknap, George Eugene	3	471
Bell, Henry Haywood	3	474
Bellamy, Samuel	3	480
Benham, Andrew Ellicott Kennedy	3	514
Benson, William Shepherd	3	524
Bent, Silas	3	524
Bicknell, George Augustus	3	681
Biddle, James	3	686
Biddle, Nicholas	3	686
Biddle, William Phillips	3	687
Blakeley, Johnston	4	57
Blue, Victor	4	123
Boggs, Charles Stuart	4	154
Bowles, Francis Tiffany	4	364
Bradford, Royal Bird	4	385
Braine, Daniel Lawrence	4	407
Breese, Kidder Randolph	4	461
Bridge, Horatio	4	525
Brown, George	4	605
Brown, Moses	4	610
Buchanan, Franklin	4	657
Bunce, Francis Marvin	5	22
Burgess, Edward	5	38
Burley, Bennett G	5	49
Burrows, William	5	67
Bushnell, David	25	769
Caldwell, Charles Henry Bromedge	5	188
Caperton, William Banks	5	552
Capps, Washington Lee	5	570
Carpenter, Charles Carroll	5	652
Carter, Samuel Powhatan	5	679
Case, Augustus Ludlow	5	697
Chadwick, French Ensor	6	242
Chambers, Washington Irving	6	264
Chauncey, Isaac	6	366
Chester, Colby Mitchell	6	427
Clark, Charles Edgar	7	40
Claxton, Alexander	7	65
Clover, Richardson	7	133
Coghlan, Joseph Bullock	7	214
Colby, Harrison Gray Otis	7	234
Comly, Samuel Pancoast	7	363
Cotton, Charles Stanhope	8	59
Colvocoresses, George Partridge	7	346
Cook, Francis Augustus	7	620
Cooke, J, W	22	263
Cooper, George Henry	7	635
Cooper, Philip Henry	7	637
Craven, Thomas Tingey	8	164
Craven, Tunis Augustus Macdonough	8	164
Cromwell, Bartlett Jefferson	8	223
Crosby, Peirce	8	228
Crowninshield, Arent Schuyler	8	248
Cushing, William Barker	8	334
	22	264
Dahlgren, John Adolf	8	394
Dale, Richard	8	414
Davenport, Henry Kallock	8	497
Davenport, Richard Graham	8	498
Davis, Cleland	26	706
Day, Benjamin Franklin	8	518
De Camp, John C	8	554
Decatur, Stephen	8	556
Dewey, George	9	46
Du Pont, Samuel Francis	9	412
Dyer, Nehemiah Mayo	9	451
Eckford, Henry	9	545
Elliott, Jesse Duncan	10	254
Emmons, George Foster	10	297
Endicott, Mordecai Thomas	10	319
Entwistle, James	10	404
Erben, Henry	10	469
Estaing, Jean Baptiste Charles Hector	10	518
Evans, Robley Dunglison	10	593

Biographies — cont'd	Vol.	Page
Fairfax, Donald McNeill.	10	718
Farenholt, Oscar Walter	11	18
Farquhar, Norman von Heidreich	11	45
Farragut, David Glasgow	11	45
Faunce, John	11	64
Febiger, John Carson	11	76
Fiske, Bradley Allen	11	295
Fitch, Leroy	11	298
Fletcher, Frank Friday.	11	348
Folger, William Mayhew	11	415
Foote, Andrew Hull	11	458
Ford, John Donaldson	11	465
Forrest, French	11	493
Fox, Gustavus Vasa	11	564
Fullam, William Freeland	12	153
Fulton, Robert	12	158
	25	769
Garett, G. W	25	770
Gherardi, Bancroft	12	633
Godon, Sylvanus William	12	747
Goldsborough, Louis Malesherbes	13	32
Gorringe, Henry Honeychurch	13	67
Grasse, François Joseph Paul	13	153
Greene, Samuel Dana	13	431
Greer, James Augustin.	13	442
Gregory, Francis Hoyt.	13	457
Gridley, Charles Vernon.	13	467
Guest, John	13	527
Harby, Levi Charles	13	694
Harmony, David Buttz.	13	717
Harwood, Andrew Allen.	13	748
Hichborn, Philip	14	167
Higginson, Francis John.	14	176
Hobson, Richmond P	14	305
Hoff, William Bainbridge	14	309
Holland, John Philip	14	317
	25	770
Hollins, George Nichols.	14	319
Hooker, Edward	14	362
Hopkins, Esek	7	587
	14	371
Hosley, Harry Hibbard.	14	426
Howard, Thomas Benton.	14	454
Howell, John Adams	14	459
Howison, Henry Lycurgus	14	460
Hull, Isaac	14	485
Humphreys, Joshua	14	496
Ingersoll, Royal Rodney.	15	130
Ingraham, Duncan Nathaniel	15	132
Jenkins, Thornton Alexander	16	13
Jewell, Theodore Frelinghuysen	16	49
Jones, Jacob	16	198
Jones, John Paul	7	587
	16	198
Jones, Thomas ap Catesby	16	202
Jonett, James Edward	16	215
Kearny, Lawrence	16	327
Kelley, James Douglas Jerrold	16	340
Kempff, Louis	16	350
Kimball, Sumner Increase	16	415
Kimball, William Wirt.	16	415
Kimberley, Lewis Ashfield	16	416
Knight, Austin Melvin	16	481
Lake, Simon	25	771

Biographies — cont'd	Vol.	Page
Lamberton, Benjamin Peffer	16	673
Lamson, Lieutenant	25	792
Lawrence, James	14	385
	17	146
Lee, Samuel Phillips	17	225
Lee, Admiral	25	792
Leroy, William Edgar	17	313
Levy, Uriah Phillips	17	332
Loring, Charles Harding	17	663
Lowe, John	17	698
Luce, Stephen Bleecker.	17	715
Lynch, William Francis.	17	777
McCalla, Bowman Hendry	18	20
McCormick, Alexander Hugh	18	28
McGiffin, Philo Norton	18	48
McNair, Frederick Wallette	18	85
Macdonough, Thomas	18	89
Mackenzie, Alexander Slidell	18	67
Maclay, Edgar Stanton.	18	76
Mafitt, John Newland	18	112
Mahan, Alfred Thayer	18	134
Manley, John	18	226
Matthews, Edmund Orville	18	443
Maury, Matthew Fontaine	18	452
Mayo, Henry Thomas	18	468
Meade, Richard Worsam.	18	474
Merrell, John Porter	18	678
Miller, Joseph Nelson	19	120
Miller, Merrill	19	120
Milligan, Robert Wiley.	19	126
Montgomery, John Berrien	19	407
Moore, John White	19	433
Morris, Charles	19	473
Morris, George Upham	19	475
Morris, Henry W	19	476
Mullany, James Robert Madison	19	555
Murdock, Joseph Ballard	19	604
Murray, Alexander	19	609
Nelson, William	20	66
Nichols, Henry Esra	20	318
Nicholson, James	20	319
Nicholson, James William Augustus	20	319
Niblack, Albert Parker.	20	301
Nixon, Lewis	20	379
O'Brien, Jeremiah	20	545
Osborn, Bradley S	21	16
Osterhaus, Hugo	21	34
Page, Thomas Jefferson.	21	97
Page, Richard Lucian	21	97
Palmer, James Shedden.	21	212
Parker, Foxhall Alexander	21	327
Patterson, Daniel Tod	21	408
Paulding, Hiram	21	415
Peary, Robert Edwin	21	458
Perry, Commodore	27	373
Perry, Matthew Calbraith	11	14
	21	606
Perry, Oliver Hazard	21	607
Phelps, Thomas Stowell	21	719
Philip, John Woodward.	21	744
Picking, Henry Forry	22	67
Pook, Samuel Hartt	22	353
Porter, David	22	380
Porter, David Dixon	22	389
Porter, William David	22	392
Potter, William Parker.	22	453

Biographies — cont'd	Vol.	Page
Powelson, Wilfred Van Nest	22	477
Preble, Edward	22	519
Preble, George Henry	22	519
Quackenbush, Stephen Platt	22	51
Radford, William	23	114
Ramsay, Francis Munroe	23	205
Read, John Joseph	23	245
Rearick, Peter Anton	23	263
Reid, Samuel Chester	23	330
Reynolds, William	23	454
Rodgers, Christopher Raymond Perry	23	621
Rodgers, Frederick	23	621
Rodgers, John	23	621
Rodman, Hugh	23	622
Rodney, George Brydges.	23	623
Roe, Francis Asbury	23	625
Rooke, Sir George	23	679
Rowan, Stephen Clegg	23	728
Royce, Charles C	23	737
Ruschenberger, William Samuel Waithman	23	779
Sampson, William Thomas	24	226
	27	440
Sands, Benjamin Franklin	24	257
Schley, Winfield Scott	24	379
Schroeder, Seaton	24	402
Selfridge, Thomas Oliver, Jr	24	542
Semmes, Raphael	24	555
Shaw, John	24	665
Shubrick, John Templar	24	760
Shubrick, William Bradford	24	760
Sicard, Montgomery	24	776
Sigsbee, Charles Dwight	18	149
	24	804
Simpson, Edward	25	27
Skerrett, Joseph S	25	68
Sims, William Sowden	25	29
Sloat, John Drake	25	99
Smith, David	25	114
Smith, Melancton	25	125
Somers, Richard	25	250
Southerland, William Henry Hudson	25	310
Sperry, Charles Stillman	25	401
Speyers, Arthur Bayard	25	402
Steedman, Charles	25	561
Stewart, Charles	25	643
Stirling, Yates	25	653
Stockton, Charles Herbert	25	662
Stockton, Robert Field	25	662
Strain, Isaac G	25	708
Strauss, Joseph	25	720
Stringham, Silas Horton	25	738
Sumner, George Watson.	26	18
Talbot, Silas	26	221
Tappan, Benjamin	26	264
Tattnall, Josiah	26	283
Taussig, Edward David.	26	286
Taylor, David Watson	26	297
Thatcher, Henry Knox.	26	489
Trenchard, Stephen Decatur	27	89
Truxtun, Thomas	27	116
Tucker, John Randolph.	27	128
Tucker, Samuel	27	129
Turner, Thomas	27	204
Twiggs, Levi	27	227
Upshur, John Henry	27	586
Van Duzer, Lewis Sayre.	27	660

Biographies — cont'd	Vol.	Page
Van Reypen, William Knickerbocker	27	674
Voorhees, Philip Falkerson	28	185
Waddell, James Iredell	28	205
Wadleigh, George Henry	28	206
Wainwright, Richard	28	214
Walke, Henry	28	226
Walker, Asa	28	227
Walker, John Grimes	28	228
Walker, William McCreary	28	231
Watmough, James	29	108
Watson, John Crittenden	29	109
Weaver, Aaron Ward	29	135
Whipple, Abraham	29	256
White, Edwin	29	265
Whitehead, Robert	26	706
Wilde, George Francis Faxon	29	311
Wildes, Frank	29	316
Wilson, Theodore Delevan	29	362
Winslow, Captnin	16	328
Winslow, John Ancrum	29	400
Wise, Henry Augustus	29	427
Woodhull, Maxwell	29	495
Worden, John Lorimer	29	515
Wyman, Robert Harris	29	581
Young, Lucien	29	651

GREAT BRITAIN

Anson, George	2	6
Arbuthnot, Marriot	2	147
Ayscue, Sir George	2	686
Barclay, Robert Heriot	3	242
Barnaby, Sir Nathaniel	3	262
Barton, Andrew	3	296
Battenberg, Louis Alexander	3	341
Beatty, Sir David	3	388
	28	443
Beaver, Philip	3	397
Beechey, Frederick William	3	427
Belcher, Sir Edward	3	452
Benbow, John	3	500
Beresford, Charles William, Lord	3	541
Blake, Robert	4	56
	13	323
Bosanquet, George Stanley	4	285
Boscawen, Edward	4	285
Broke, Sir Philip Bowes Vere	4	574
Byng, George, Viscount Torrington	5	96
Byng, John	5	96
Byron, John	5	101
Carden, Sackville Hamilton	5	599
Churchill, Winston Spencer	13	326
	28	446
Cochrane, Thomas	7	185
Cockburn, Sir George	7	186
Codrington, Sir Edward	7	197
Coffin, Sir Isaac	7	212
Collingwood, Cuthbert	7	267
Colomb, Philip Howard	7	276
Cook, James	7	621
Cradock, Sir Christopher	8	148
	28	442
Darling, Grace Horsley	8	478
Dickinson, James	14	385
Drake, Sir Francis	9	301
Duckworth, Sir John Thomas	9	381
Dundas, Sir James Whitley Deans	9	403
Exmouth, Edward Pellew	10	639
Fisher of Kilvorstone, 1st Baron	11	281
Fisher, Sir John Arbuthnot	11	281
Gambier, James	12	261
Grenville, Sir Richard	13	461
Hall, Basil	13	640
Hawke, Edward	14	7
Hobart-Hampden, Augustus Charles	14	302
Hood, Arthur William Acland	14	359
Hood, Samuel	14	360
Hotham, William	14	440
Howe, Richard	14	457
Ingle, Richard	15	130
Inglefield, Sir Edward Augustus	15	131
Jellicoe, John Rushworth	16	10
	28	444
Jervis, John	16	34
Keith, George Elphinstone, Viscount	16	336
Keppel, Augustus	16	374
Keppel, Sir Colin Richard	16	374
Keppel, Sir Henry	16	375
Key, Sir Astley Cooper	16	385
King, Philip Parker	16	432
Lancaster, Sir James	16	685
Laughton, Sir John Knox	17	104
Leake, Sir John	17	177
Leary, Richard Phillips	17	180
Low, Charles Rathbone	17	697
Lyon, George Francis	17	780
McClintock, Sir Francis Leopold	18	25
McClure, Sir Robert John Le Mesurier	18	26
Markham, Albert Hastings	18	299
Marryat, Frederick	18	319
Monck, George	19	358
Napier, Sir Charles	19	693
Nares, Sir George Strong	19	705
Nelson, Horatio, 1st Viscount	11	600
	20	64
Norfolk, John Howard, 1st Duke of	20	400
Ommanney, Sir Erasmus	20	683
Osborn, Sherard	21	17
Parker, Sir Hyde	21	328
Peake, William	14	385
Penn, Sir William	21	512
Pim, Bedford Clapperton Trevelyan	22	90
Reed, Sir Edward James	23	293
Saint Vincent, John Jervis	24	171
Sausmarez, James	24	319
Scott, Sir Percy	13	569
Scott, Robert Falcon	24	441
Somers, Sir George	25	250
Sturdee, Sir Frederick Charles Doveton	25	755
	28	442
Tryon, Sir George	27	116
Vernon, Edward	28	33
Wallis, Sir Provo William Parry	28	242
Watter, Sir Walter	23	196
Warren, Sir John Borlase	28	708
Yeo, Sir James Lucas	29	634

OTHER COUNTRIES

Alaminos, Antonia de	1	309
Apraxin, Feodor Matejevitch	2	101
Arisugawa Takehito	2	245
Baert, Jean	3	37
Barre, Antoine Joseph le Fèvre de la	3	276
Bart, Jean	3	37
	3	288
Basiliscus	3	310
Bauer, Wilhelm	3	349
Beaufort, François de Vendome	3	389
Bellingshausen, Fabian Gottlieb von	3	488
Bellot, Joseph René	3	490
Bille, Steen Andersen	3	704
Bougainville, Louis Antoine de	4	323
Brion, Luis	4	544
Brueis, François Paul	4	628
Bruys, D'Aigalliers, François Paul	4	628
Câmara y Libermoore, Manuel de la	5	243
Caraccioli, Francesco	5	582
Casabianca, Louis	5	693
Catulus, Gaius Lutatius	6	125
Cervera y Topete, Pascual	6	229
	27	440
Chabert De Cogolin, Joseph Bernard	6	240
Chabot, Philippe de Brion	6	241
Cochrane, Thomas	7	185
De Winter, Jan Willem	9	48
De Witt, Cornelius	9	49
Doria, Andrea	9	265
Dribel, Cornelis van	25	769
Dupetit-Thouars, Abel Aubert	9	410
Duguay-Trouin, René	9	389
Duquesne, Abraham	9	415
Estaing, Jean Baptiste Charles Hector	10	518
Eurybiades	10	583
Fauque De Jonquières, Jean Phillipe Ernest	11	64
Fleurieu, Charles Pierre Claret	11	350
Freycinet, Louis Claude Desaulses de	12	99
Goltz, Max, Baron von der	13	40
Grasse, François Joseph Paul	13	153
Grau, Miguel	13	162
Hobart Pasha	14	302
Iberville, Pierre le Moyne	14	615
Joinville, François F. P. L. M., Orleans, Prince d'	16	190
Juel, Niels	16	238
Jurien De La Gravière, Jean P. E	16	255
Kamimura, Hikonojo, Baron	16	288
Kanaris, Konstantine	16	289
Kato, Tomosaburo	16	316
Kersaint, Armand Guy S. de C	16	381
Köster, Hans L. R. von	16	533
La Barre, Antoine J. L. de	16	567

Biographies — cont'd	Vol.	Page
La Jonquière, Jacques P. T., Marquis of	16	576
La Roncière Le Noury, Camille A. M. C., Baron de	16	581
La Touche-Tréville, Louis R. V., Viscount de	16	584
Laudonnière, René de	17	101
Lauria, Ruggiero di	17	110
Lecointe, Georges	17	211
Liniers y Bremont, Santiago Antonio Maria de	17	460
Loria, Ruggiero di	17	110
Luria, Ruggiero di	17	110
Lynch, Patricio	17	777
Magellan, Ferdinand	18	114
Makarov, Stepan Osipovich	18	156
Makaroff, Vice-Admiral	15	731
Mello, Custodio José de	18	606
Miaulis, Andreas Vohos	19	9
Montojo, Patricio	19	412
Nordenfeldt, Thorsten	25	770
Palander of Vega, Adolf Arnold Louis	21	135
Pellegrini, Mario	26	397
Rojestvensky, Vice-Admiral	15	734
Ruyter, Michael Adrianszoon de	24	69
Sarmiento Gamboa, Pedro de	24	305
Spee, Maximilian von	25	379
Suffren de Saint-Tropes, Pierre André de	25	792
Surcouf, Robert	26	61
Tirpitz, Alfred von	26	644
	28	440
Toga, Heihaichiro, Count	15	730
	26	668
Tordenskjold, Peter	26	702
Tourville, Anne Hilarion de Cotentin	26	722
Tromp, Cornelis	27	85
Tromp, Marten Harpertszoon	27	86
Uriu, Sotokichi	27	597
Uryu, Rear-Admiral	15	730
Vietri, Arturo	28	390
Villeneuve, Pierre Charles J. B. S. de	28	92
Wrangel, Ferdinand Petrovitch, Baron	29	564

See also under Engineering—Marine Engineering; History; Iron and Steel; Military Science and History; Ships, Shipping and Ship Building; World War.

OCEANOGRAPHY

General

General	Vol.	Page
Abyssal deposits	1	57
Abyssal life	8	582
Alternation of forces	26	612
Antarctic Ocean	2	13
Antecedent stream	2	14
Arctic current	2	188
	2	505
Arctic Ocean	2	188
Atlantic Ocean	2	504
Atmospheric pressure	18	718
Barometric gradient	18	718
Bay	3	359
Brazil current	2	505
Cape Horn current	2	505
Caribbean Basin, recent studies of	5	609
Caribbean Sea	5	609
Carnegie yacht	5	638
Carolina ridge	5	647
Coast and Geodetic Survey, United States	7	168
Consequent stream	7	545
Continental shelf	7	588
Coral and Coral Islands	7	676
Cotidal lines	26	614
Currents	8	313
	11	289
	20	562
Deep-sea dredging	8	578
Deep-sea exploration	8	577
Deep-sea life	8	580
Deep-sea sounding	8	578
Deep-sea thermometer	26	541
Deepest place discovered	14	584
Deposits	8	703
marine	8	579
Diurnal range of temperature	18	718
Diurnal tidal forces	26	614
Distribution of pressure	18	718
Dredging	8	579
Epicontinental seas	10	417
Equilibrium tides	26	613
dynamical questions	26	613
Equatorial current	2	505
Gulf stream	2	505
	20	582
Hydrographic Office, United States	14	575
	26	101
Hydrography	14	576
marine	14	579
Hydrology	14	580
Hydrosphere	9	490
	14	584
Indian Ocean	15	31
Intermediate depth zones	8	582
Isobars	18	718
Isodynamic lines	15	416
Isothermal layer	18	717
Light at ocean depth	8	580
Lines, cotidal	26	615
Littoral	17	525
Magnetic observers	5	639
Marine deposits	8	579
Mean low water	14	579
Ocean	12	429
	20	558
Antarctic	2	13
Arctic	2	188
area	20	559
Atlantic	2	504
currents	11	289
	20	562
depth	20	559
floors	8	580
German	20	425
Indian	15	31
North Pacific	21	89
Pacific	21	88
South Pacific	21	89
surface life of	8	579
temperatures	18	717
	20	561
tides, partial explanation of	26	613
Oceanic basins	21	175
Oceanic plants	8	581
Oceanography	12	423
	20	566
Oceans, area of	14	584
Ooze	20	697
Pacific Ocean	21	88
North	21	89
South	21	89
Paleogeography	21	173
Plankton (swimming or floating sea-life)	8	581
	22	152
Projection	22	644
Rennel current	2	505
	28	377
Salinity of the ocean	8	580
Sargasso Sea	22	168
Sea	20	558
bottom of	20	562
Sea pressure	8	580
Sea water	29	14
composition and density of	20	560
Sounding	8	578
Soundings	25	272
South African current	2	505
	20	562
Stream flow	14	580
Submarine forests	25	761

General — cont'd	Vol.	Page
Surveying	26	91
hydrographic	26	96
topographical	26	93
Surveys, United States governmental	26	98
Temperature, annual range of	18	718
at ocean depth	8	580
vertical decrease of	18	717
Tidal wave, oscillations in	26	616
Tidal forces	26	611
Tidal streams, directions of	26	616
Tide instrument	26	617
Tides	26	611
definitions	26	611
forces	26	611
hypothetical dynamical	26	613
hypothetical equilibrium	26	613
in the earth's crust	26	615
neap	26	611
observation of	26	616
partial explanation of	26	613
peculiarities of	26	615
prediction of	26	616
real equilibrium	26	613
velocities of	26	616
Tidewater	26	617
Topography	14	578
Triangulation	14	578
Velocities of tides	26	616
Vortex	28	186
Waves and wave-motion	29	117
Whale hole	20	271
Whirlpool	29	257
Wire drag	14	579

Biographies

Dubois, Edmond Paulin	9	374
Furneaux, Tobias	12	181
Pourtalès, Louis François de	22	474
Rennell, James	23	377

See also **Geology; History — Geography; Meteorology** and kindred subjects.

OILS AND PETROLEUM

General

General — cont'd	Vol.	Page
Animal oils	20	626
Anthracene oils	7	162
Attar of roses	28	170
Benne oil	3	519
Benzaldehyde	3	530
Benzoic aldehyde	3	530
Blubber oils	20	627
Brazil, vegetable oils	4	435
Calaba oil	5	152
Carron oil	5	674
Castor oil	6	16
	20	626
Cheese box press	17	463
Chinese wood oil	16	553
Cholesterol	20	625
Cinnamon oil	6	687
Citronella oil	6	711
Coal oil	7	157
Coconut oil	7	191
Cocum butter	7	191
Cocum oil	7	191
Cod-liver oil	7	194
Cold pressed oil	8	86
Coleseed oil	7	347
Colza oil	7	347
Congealing oil	20	626
Cottonseed oil	8	85
commercial extension of	8	85
growth of industry	8	87
history of	8	85
industry	8	85
new machinery	8	86
new uses	8	90
present process of extracting	8	88
statistics	8	88
value of product	8	88
Dippels oil	9	141
Drying oils	20	625
Essential oils	6	391
	10	514
	20	628
	28	170
methods of making	10	515
	20	628
Expressed oils	10	665
Fatty oils	20	625
Fixed oils	11	305
	20	625
Foots	15	102
Fuel oils	12	145
Fuller's earth	12	155
Fusel oil	12	202
Gallipoli oil	12	249
Gurjun balsam	13	575
Hazelnut oil	14	23
Hops, essential oil of	14	377
Hot pressed oil	8	86
Kukui oil	16	553
Lemon oil	17	281
Linseed oil	11	340
	17	462
industry	17	462
growth of	17	465
manufacture of	17	462
mills	11	339
uses of	17	465
Liver oils	20	626
Macassar oil	18	9
Madia oil	18	98
Margarin	18	280
Margarine	18	280
Marine animal oils	20	626
Marjoram oil	28	170
Meth	18	474
Mustard oil	19	655
Neat's Foot oil	17	196
	20	23
	25	86
Non-drying oils	20	626
Oil	20	624
developments in the United States	21	685
fields, Colorado	21	687
Louisiana	21	687
Montana	21	687
Rocky Mountain	21	687
Texas	21	687
Trenton Rock	21	686
Utah	21	687
west of the Mississippi	21	686
Wyoming	21	687
hydrogenation of	17	484
in Kentucky	16	371
in Oklahoma	20	636
in Pennsylvania	21	520
of Ben	3	498
of bergamot	28	170
of bitter almonds	28	170
of cloves	28	170
of copaiba	7	645
of eucalyptus	28	170
of garlic	12	294
of gaultheria	12	341
	29	403
of lavender	17	118
	28	170
of lemon	17	281
	28	170
of mustard	20	629
of origanum	28	170
of peppermint	28	170
of thyme	26	604
	28	170
of turpentine	27	206
	28	170
of vitriol	26	5
	28	155
of wintergreen	29	403
production, Russia	24	46
West Virginia	29	210
shale	20	630
Olive oil	1	159
	20	664
Orange oil	20	724
Otto of roses	28	170
Palm oil	5	496
	21	217
Peanut oil	20	626
	21	452

General — cont'd	Vol.	Page
Petroleum	21	680
as a fuel	21	694
chemistry of	21	681
cracking	8	147
Hall process	8	147
Rittman process	8	147
distilling	21	691
distribution of	21	684
Drake discovery	21	684
early uses of	21	682
export of	21	693
fractional distillation	21	692
fractional distillation, Wells process	21	693
fuel	22	483
geographical distribution	21	681
geological distribution	21	682
in California	5	206
in Canada	5	442
in Latin America	17	45
in the United States	21	684
origin of	21	682
pipe-line statistics	21	689
production	21	687
production of the United States	21	690
refining	21	691
cracking process	21	691
destructive process	21	691
McAfee process	21	692
Rittman process	21	692
shale oil industry	21	683
transportation of	21	688
world's production	21	691
Pipe lines	22	110
Porgie	15	104
Rape oil	7	347
Semi-drying oils	20	625
Shark oil	24	660
Sod oils	15	104
Standard Oil Company	25	478
Terrestrial animal oils	20	627
Turpentine oil	27	206
	28	170
Vegetable oils	4	435
	20	625
Volatile oils	10	514
	28	170
Wedge press	17	463
Wells and well-sinking	29	187
Whale oil	29	234
Wood oil	13	575
	29	486
Biographies		
Andrews, Samuel	25	479
Bissell, George H	21	685
Clark, M. B	25	478
Drake E, L	21	685
Eveleth, Jonathan D	21	685
Flagler, Henry M	11	324
	25	379
Harkness, Stephen V	25	479
Rittman, Walter F	21	692
Rockefeller, John D	23	597
	25	478
Rockefeller, John D. Jr.	23	598
Rockefeller, William	23	598
	25	479
Rockefeller, William Goodsell	23	598
Rogers, Henry Huttlestone	23	627
Silliman, Benjamin, Jr.	21	685
	25	9
Wells, Frank E	21	693
Wells, Willet C	21	693

ORDERS AND DECORATIONS

Subjects	Vol.	Page
Albert medal	20	768
Arts and sciences, medal for	20	768
Commandery of Utrecht, Order of	20	768
Cross of Merit	20	767
Distinguished Service Order	9	186
	20	768
Edward medal	20	768
Gold Medal of the Lone Star and the Order of Merit	20	768
Golden Collar, Order of	14	165
Illustrious Royal Order of Charles III	20	768
Imperial Dragon	20	767
Imperial Service Order	14	723
	20	768
Kaisar-i-Hind medal	20	768
Knights Hospitallers of Saint John the Baptist in Jerusalem	20	766
Ladies of the Order of St John	20	766
Legion of Honor	17	244
Leopold, Order of	17	306
Medal	18	530
Medal for bravery	20	768
Medal for bravery and the Order of Saint Charles	20	768
Medal of Honor	20	767
Medal of Honor, Legion	18	531
Medal of Honor of Austria-Hungary	20	767
Medal of Honor, United States Military	18	531
Medal of merit	20	768
Medal of military virtue	20	768
Merit, Order of	18	675
Military medal	20	767
Montresa, Order of Our Lady of	19	402
Most Ancient and Noble Order of the Thistle	20	767
Most Distinguished Order of Saint Michael and Saint George	20	767
Most Eminent Order of the Indian Empire	20	767
Most Exalted Order of the Star of India	20	767
Most Honorable Order of the Bath	20	767
Most Illustrious Order of Saint Patrick	20	767
Most Noble Order of the Garter	12	300
	20	767
Patriotic service, medal of devotion for	20	768
Public instruction, medal of	20	768
Order and Medal of Kapiolani	20	768
Order Isabella II	20	768
Order of Agricultural Merit	20	768
Order of Alexander	20	767
Order of Bolivar	20	768
Order of Bulgaria, Military	20	767
Order of Calatrava, Military	5	157
	20	768
Order of Charles XIII	20	768
Order of Christopher Columbus	20	767
Order of Civil and Military Merit	20	767
Order of Civil Merit	20	767
Order of Francis Joseph	20	767
Order of Independence	20	768
Order of Kalakaua I (1875)	20	768
Order of Kamehameha I (1865)	17	287
	20	768
Order of Leopold	17	306
	20	767
Order of Louise	20	767
Order of Malta	16	161
	20	768

Subjects — cont'd	Vol.	Page
Order of Marie-Christine, Military	20	768
Order of Maria-Theresa, Military	20	767
Order of Marie-Louise	20	768
Order of Marie-Victoria	20	768
Order of Merit	18	675
	20	767
	20	768
Order of Military Merit	20	768
Order of Milosh the Great	20	768
Order of Orang-Nassau	20	768
Order of Our Lady of Guadalupe	20	768
Order of Our Lady of Montesa, Military	19	402
	20	768
Order of Pedro I	20	767
Order of Pius IX	20	768
	22	138
Order of Saint Alexander-Nevski	20	768
Order of Saint Andrew	1	693
	20	768
Order of Saint Anne	20	768
Order of Saint Catherine	6	52
	20	768
Order of Saint Cecilia	20	768
Order of Saint Charles	20	768
Order of Saint Ferdinand, Military	20	768
Order of Saint George, Military	12	300
	20	768
Order of Saint Gregory the Great	13	458
	20	768
Order of Saint Hermenegilde	20	768
Order of Saint John of Jerusalem	20	768
Order of Saint Lazare	20	768
Order of Saint Mark	18	299
Order of Saint Maurice and Saint Lazare	20	768
Order of Saint Peter	20	768
Order of Saint Sava	20	768
Order of Saint Stanislas	20	768
Order of Saint Stephen of Hungary	20	767
Order of Saint Sylvester	20	768
Order of Saint Vladimir	20	768
Order of San Marino	20	768
Order of Savoy	20	768
Order of Savoy, Civil	20	768
Order of Solomon's Seals	20	767
Order of the Annunziata	20	768
Order of the Beneficencia	20	768
Order of the Beneficence of Liberia	20	768
Order of the Black Eagle	20	767
Order of the British Empire	20	767
Order of the Chrysanthemum, Supreme	20	768
Order of the Companions of Honor	20	768
Order of the Cross of Christopher Columbus	20	767
Order of the Cross of Takovo	20	768
Order of the Crown	20	768
Order of the Crown of India, Imperial	20	768
Order of the Crown of Italy	29	768
Order of the Crown of Prussia	20	767
Order of the Crown of Rumania	20	768
Order of the Crown Royal	20	767
Order of the Dannebrog	20	767
Order of the Double Dragon	9	273
	20	767
Order of the Eastern Sun	20	768
Order of the Elephant	10	222
	20	767
Order of the Garter, British	12	300
	20	766
Order of the Golden Fleece	13	26
	20	767
Order of the Golden Kite, Military	20	768
Order of the Golden Lion	20	768
Order of the Golden Lion of the House of Nassau	20	768
Order of the Golden Spur	13	28
	20	768
Order of the Great Crown	20	768
Order of the Holy Sepulchre	14	330
	20	768
Order of the Hospital of Saint John of Jerusalem	20	768
Order of the House of Hohenzollern, Royal	20	767
Order of the Iron Cross	15	368
	20	767
Order of the Jeweled Star	20	768
Order of the Legion of Honor	17	244
	20	767
Order of the Medjidieh	18	590
	20	768
Order of the Mexican Eagle	20	768
Order of the Moor	20	768
Order of the Netherlands Lion	20	768
Order of the Nine-Pointed Star	20	768
Order of the Nishan-i-Shefkat	20	370
	20	768
Order of the Oaken Crown	20	768
Order of the Osmanieh	20	768
Order of the Pole Star	20	768
Order of the Red Eagle	20	767
Order of the Redeemer, Royal	20	768
Order of the Rose, Imperial	20	767
Order of the Royal Crown of Hawaii	20	768
Order of the Sacred Treasure	20	768
Order of the Seraphim	20	768
Order of the Siamese Crown	20	768
Order of the Snares of Love	20	766
Order of the Southern Cross, Imperial	20	767
Order of the Star	20	767
Order of the Star of Rumania	20	768
Order of the Star of the Ocean	20	768
Order of the Starry Cross	20	767
Order of the Sun	20	768
Order of the Sun and the Lion	20	768
	26	29
Order of the Sun of Paullownia	20	768
Order of the Sword, or the Yellow Ribbon	20	768
Order of the White Eagle	20	768
Order of the White Elephant of Siam	20	768
Order of Willem	20	768
Order of William (Wilhelms-Orden)	20	767
Orders (Royal) and Decorations	20	764
Ordre Pour le Merit (Order for Merit)	20	767
Royal American Order of Isabella the Catholic	20	768
Royal Victoria Order	20	767
Templars	20	766
Teutonic Knights	26	457
Teutonic Order	20	766
	20	768
Victoria Cross	20	768
	28	74

PAINTING

General	Vol.	Page
Academy artists	18	775
Academy of Arts and Letters	1	63
Adoration of the Magi	18	104
	21	127
Adoration of the Shepherds (Correggio)	21	127
Aldobrandini Marriage	1	355
Allori	1	424
American landscape painting	1	526
	16	706
Ancient paintings	21	126
Animal painting	21	129
Annunciation (Titian)	18	103
	21	127
Aquarelles painting	29	17
Arena Chapel at Padua	19	599
Architectural painting	21	130
Art	2	335
Art, pre-Columbian	18	769
Asphalt painting	2	407
Assumption of the Virgin	2	428
	26	649
Aureola	2	554
Aureole	2	554
Aurora	2	556
Bacchus and Ariadne	3	11
Bambocciades	3	129
Barbizon, painters of	3	238
Bedford Missal	3	415
Bella Giardiniera, La	3	479
Belle Chocolatière, La	3	481
Bice	3	679
Bird painting	21	130
Bise	3	679
Bistre	4	23
Blue Boy, The	4	124
Boisserée collection	4	175
Bolognese school	4	195
Boston group of artists	11	280
Brush	4	640
Byzantine painting	5	105
	21	112
Byzantine painting	21	112
Caillebotte collection	14	727
Caillebotte gallery, gem of	11	691
Camaieu	5	243
Camayeu	5	243
Camera della Segnatura	19	601
Camouflage	5	268
	17	510
Carnation	5	632
Ceruleum	6	227
Chiaroscuro	6	436
Chiaroscuro	6	436
Christian art, early	21	126
Church painting	23	373
Color	7	306
	14	727
Coloring	7	327
Colors in art and symbolism	7	328
black	7	329
blue	7	329
brown	7	330
gold	7	330
green	7	330
orange	7	330
purple	7	329
red	7	329
violet	7	329
white	7	329
yellow	7	329
Composite reflections	14	728
Crossing the Brook (Turner)	21	129
Cubism	8	288
	11	693
Cyclorama	8	363
Dance of Death	8	447
David school	11	690
Decorative art	8	567
Decorative painting	15	518
Delft Faience	8	620
Descent from the Cross (Rubens)	21	127
	23	747
Design	9	9
Distemper	9	172
painting	29	17
Domestic groups	18	104
Doom	9	261
Dryness	9	366
Ducal Palace at Venice	19	599
Duchess of Devonshire	9	377
	9	421
Dürer's art	9	421
	23	372
Emilian art	15	525
Ecce Homo	9	522
Ecce Homo	9	522
Ecclesiastical art	9	527
Echove, school of	18	773
Encaustic painting	19	600
	21	112
	21	117
	23	373
	29	17
Entombment, The	10	400
Etruscan vases	10	557
Figure painting	22	431
Flemish school	11	346
Flight into Egypt	18	104
Florentine fresco	11	365
Flower painting	21	130
Fontainebleau, school of	11	426
	11	689
Fresco painting	12	89
	19	599
	21	112
	21	117
Fresco-secco painting	21	118
Futurism	12	212
Genre painting	12	401
	21	130
	24	26
German painting	12	558
Glair	12	679
Glaneuses, Les	12	681
Gleaners, The	12	681
Gothic art	13	79
Great Masters, paintings of	21	126
Greek painting	13	382
	21	112
Harmony of color	7	311
Hispano — Indian school	18	770
Holy Family (Raphael's)	18	105
	21	127
Horse Fair, The (Bonheur)	21	130
Hudson River school of painters	14	472
	29	18
Iconography	24	25
Immaculate Conception	19	606
Impasto	12	90
Impressionism	11	691
	14	727
Impressionist school, French	11	691
Indian art	15	52
	18	769
leather work	18	769
Intonaco	12	89
Italian frescoes	29	17
Kasuga school	15	695
King of the Darklings	15	530
Kose school	15	697
La belle Jardinière	21	127
La Gioconda	19	362
Landscape painting	16	705
	21	129
Landscape painting, American	1	526
	16	706
Dutch	16	706
English	16	706
French	16	706
Russian	24	26
Spanish	16	706
Last Judgment, The	16	760
Last Supper (Vinci)	21	127
Le Nain	11	689
Le Romain	1	323
Luxembourg gallery	17	764
	21	307
Madonna and Child	21	127
Madonna del Cardellino	21	127
Madonna di San Sisto	23	217
Madonna della Sedia (Pitti)	21	127
Madonna Enthroned	18	102
Madonna in Art, The	18	102
Madonna in Gloria	18	106
Madonna (Botticelli)	21	127
Maps, gallery of, in the Vatican	19	599
Marine painting	21	129
Martyrdom of Saint Agatha	22	105
Mater Amabilis	18	105
Mater Dolorosa	18	106
Meander	18	478
Mediæval-gothic painting	21	113
Miniature painting	19	171
Miniatures	3	37
	19	171
Monna Lisa	19	362
Monochrome	19	363
Monochromatic harmony	7	311
Mural painting	19	599
exterior	19	600
paintings of the Esquilines	16	517

General — cont'd	Vol.	Page
Mythological painting...	21	131
Nativity	18	103
National Portrait Gallery, English.....	19	742
Nazarenes	20	19
Netherlands painting....	22	430
schools of painting, the	20	94
Neutral tint.....	20	102
New York Water Color Club	29	19
Nimbus	20	349
Nocturne	20	387
Noli me tangere.....	20	392
Occidental painting.....	26	167
Oil painting.....	19	600
	20	629
	21	119
Ormulu	21	1
Paint	21	107
luminous	21	111
Painters	25	344
Painting	15	516
	21	111
American landscape.	1	526
	16	706
animal	21	129
aquarelles	29	17
architectural	21	130
asphalt	2	407
bird	21	130
Byzantine	5	105
	21	112
China	21	113
church	23	373
decorative	15	518
distemper	29	17
early mediæval.....	21	112
education in.....	21	114
encaustic	19	600
	21	112
	21	117
	23	373
	29	17
figure	22	431
flower	21	130
fresco	12	89
	19	599
	21	112
	21	117
genre	12	401
	21	130
	24	26
German	12	558
Greek	13	382
	21	112
India	21	114
Japan	21	113
landscape	16	705
	21	129
marine	21	129
miniature	19	171
mural	19	599
mythological	21	131
Netherlands	22	430
Occidental	26	167
oil	19	600
	20	629
	21	119
pastel	21	121
Persia	21	114
portrait	21	128
Post-Renaissance ..	22	427
Renaissance	23	371
Roman	15	518
	21	112
Spanish	25	344
spirit fresco	21	119
stereochromy	21	119
technique of.....	21	116

General — cont'd	Vol.	Page
technique of Frans Hals	21	120
technique of Rembrandt	21	120
technique of Rubens	21	120
technique of Van Eyck	21	120
tempera	12	90
	19	600
	21	112
	21	117
	29	17
water-color	21	121
	29	17
in the United States.	21	122
	22	430
water-glass	21	119
Paintings commemorating historical events	21	129
ancient	21	126
animals and birds..	21	129
architecture	21	130
early Christian	21	126
flowers, fruits, etc..	21	130
genre	21	130
Genre	21	130
landscapes	21	129
marines	21	129
of the great masters	21	126
portrait	21	128
religious	21	127
Panel	21	243
Panorama	21	247
Pastel	21	373
painting	21	121
Pastoral Madonnas.....	18	104
Pearl, The (Raphael's)..	21	127
Pencil	21	499
Philosophy, painter of..	3	340
Pietà	18	105
Pigment primaries.....	7	310
Pigments: their nomenclature and composition	21	107
blacks	4	45
	21	109
blues	4	124
	21	108
body color.....	4	146
browns	4	613
	21	109
Brunswick green....	4	638
burnt sienna.....	5	63
umber	5	63
Chinese white.....	6	559
Cologne yellow.....	7	275
Dutch pink.....	9	437
emerald green.....	10	286
Florentine lake.....	11	365
Greens	13	424
	21	108
lake pigments.....	16	657
Naples yellow.....	19	695
Neapolitan yellow...	19	695
Paris green.....	10	286
	21	320
phycocyanin	22	23
phycoerythrin	22	23
phycophæin	22	23
Prussian brown.....	22	722
purple	23	30
reds	21	108
sap green.....	24	290
Schweinfurth green.	10	286
sienna	24	794
Terra verde.....	26	445
Terra verde.....	26	445
ultramarine	27	264
umber	27	267
whites	21	107
	29	270

General — cont'd	Vol.	Page
yellows	21	107
Pointillism	22	282
Pollice verso.....	22	320
Polychromy in painting.	22	328
Portrait painting.....	21	128
Portraiture	22	428
Poster art.....	22	436
artists, modern.....	22	437
Post-renaissance painting	22	427
Pre-Raphaelite movement, the.....	22	429
Pre-Raphaelites	22	517
Pre-Raphaelitism	22	518
Public school.....	18	775
Purpose painting school	11	88
Quaglio	23	54
Quatrocento	23	70
Raising of the Cross...	23	747
Raising of Lazarus.....	22	105
Realism in art.....	11	690
Relief	23	241
Religious paintings.....	21	127
Renaissance painting....	23	371
Restoration	23	419
Reynold's portraits.....	23	453
Riposo	18	104
Rock of Ages.....	20	595
Roman painting.....	15	518
	21	112
Romanticism in art.....	11	690
Scandinavian art.....	22	430
Shadow	14	728
Sistine Chapel at Rome.	19	599
Sistine Madonna (Dresden)	21	127
Spanish painting.....	25	344
Spirit fresco painting...	21	119
Stereochromy	25	627
painting	21	119
Still-life	25	649
Switzerland, art of.....	22	430
Symmetry in art.....	26	167
Takuma school.....	15	697
Technique in painting..	29	17
Tempera painting.....	12	90
	19	600
	21	112
	21	117
	29	17
Titian pictures.....	26	649
Tosa school.....	15	697
Transfiguration, The...	23	217
Tuscan school.....	15	524
Umbrian school.....	23	373
United States, painting in	21	122
United States, painters of	27	538
Ursuline convent.....	23	76
Venetian school.....	23	374
Virgin of the Rocks (Vinci)	21	127
Warrior vase.....	13	383
Water-color painting....	21	121
	29	17
Water glass, double....	21	119
painting	21	119
potash	21	119
soda	21	119
White lead.....	29	271
See also under **Fine Arts —General**		

Biographies

UNITED STATES

Abbey, Edwin Austin...	1	13
	15	222
Alcott, May (Mme. Ernest Nieriken).....	1	351
Alexander, John White.	1	367
Allen, Thomas.....	1	416

Biographies — cont'd	Vol.	Page
Allston, Washington	1	428
	21	123
Armstrong, David Maitland	2	285
Baer, William Jacob	3	36
Ballin, Hugo	3	100
Beard, James Henry	3	380
Beaux, Cecilia	3	396
Beard, William Holbrook	3	380
Beckwith, James Carroll	3	408
Benson, Frank Weston	3	523
Birch, Thomas	3	724
Bierstadt, Albert	3	692
	29	18
Bellows, George Wesley	3	491
Bellows, Albert F	3	491
Blakelock, Ralph Albert	4	57
Blashfield, Edwin Howland	4	63
Blum, Robert Frederick	4	131
	29	19
Bogert, George H	4	154
Boggs, Frank Myers	4	154
Bogle, James	4	155
Boileau, Philip	4	165
Borglum (John) Gutzon (de la Mothe)	4	271
Both, Andrew	4	312
Both, John	4	312
Breckenridge, Hugh Henry	4	456
Brevoort, James Renwick	4	474
Bridgman, Frederick Arthur	4	582
Brown, George Loring	4	605
Brown, John George	4	609
Brown, John Lewis	4	609
Brush, George De Forest	4	689
Cameron, Edgar Spier	5	263
Carpenter, Francis Bicknell	5	632
Catlin, George	6	194
Chapman, Carlton Theodore	6	297
Champney, Benjamin	6	275
Chase, William Merritt	6	346
Church, Frederick Edwin	6	652
	21	124
Church, Frederick Stuart	6	653
Clarke, Thomas Shields	7	49
Clarkson, Ralph Elmer	7	50
Clinedinst, Benjamin West	7	113
Coffin, William Anderson	7	213
Cohen, Katherine M	7	216
Cole, Thomas	7	242
	21	124
Coleman, Samuel	7	274
Conant, Alban Jasper	7	457
Cooper, Colin Campbell	7	634
Cooper, Emma Lampert	7	634
Cooper, Thomas Sidney	7	638
Copley, John Singleton	7	650
	21	122
Cox, Kenyon	8	140
Cox, Louise Howland King	8	140
Cranch, Christopher Pearse	8	154
Crane, Bruce	8	155
Crane, Walter	8	156
Cropsey, Jasper Francis	8	227
Crowninshield, Frederic	8	248
	29	19
Curran, Charles Courtney	8	309
Cummings, Thomas Seir	8	390
Dana, William Parsons	8	445
Darley, Felix Octavius Carr	8	478
Davies, Arthur B	8	505
	21	125
Davis, Charles Harold	8	508
De Camp, Joseph Rodefer	8	554
Dewey, Charles Melville	9	46
Dewing, Thomas Wilmer	9	48
Dielman, Frederick	9	95
Dolph, John Henry	9	239
Dugmore, Arthur Radclyffe	9	388
Du Mond, Frank Vincent	9	398
Durand, Asher Brown	9	416
	21	124
Duveneck, Frank	9	443
Eakins, Thomas	9	475
	21	125
Eaton, Charles Warren	9	516
Eaton, Wyatt	9	518
Ehninger, John Whetton	10	24
Enneking, John Joseph	10	391
Farrer, Henry	11	49
Fassett, Cornelia Adèle Strong	11	51
Fenn, Harry	11	117
Fisher, Alvan	11	280
Flagg, Charles Noel	11	324
Flagg, George Whiting	11	324
Flagg, James Montgomery	11	324
Forbes, Edwin	11	460
Fosdick, James William	11	526
Foster, Benjamin	11	527
Fowler, Frank	11	561
Frackleton, Susan Stuart Goodrich	11	569
Franzen, August	12	20
Fraser, Charles	12	21
Frieseke, Frederick Carl	12	109
Frost, Arthur Burdett	12	124
Fuertes, Louis Agassiz	12	148
Fuller, George	12	153
	21	125
Fuller, Lucia Fairchild	12	154
Funk, Wilhelm Heinrich	12	174
Furness, William Henry	12	182
Garber, Daniel	12	279
Garrett, Edmund Henry	12	297
Gaul, Gilbert William	12	339
Gay, Edward	12	345
Gay, Walter	12	347
Gay, Winckworth Allan	12	347
Genth, Lillian Mathilde	12	402
Gibson, Charles Dana	12	644
Gifford, Robert Swain	12	646
Gifford, Sanford Robinson	12	646
Glackens, William J	12	676
Gray, Henry Peters	13	165
Greatorex, Eliza Pratt	13	366
Gregory, Eliot	13	457
Groll, Albert Lorey	13	484
Guérin, Jules	13	525
Gurner, Ross Sterling	13	575
Hacker, Arthur	13	607
Hardie, Robert Gordon	13	698
Harding, Chester	13	698
Harrison, Gabriel	13	729
Harrison, Lovell Berge	13	729
Harrison, Thomas Alexander	13	730
Harper, William Saint John	13	721
Hart, William	13	734
Hart, James McDougal	13	733
Hassam, Childe	13	750
	29	19
Hays, William Jacob	14	22
Healy, George Peter Alexander	14	35
Heaton, Augustus George	14	54
Hennessey, William J	14	97
Henri, Robert	14	97
Henry, Edward Lamson	14	105
Herter, Albert	14	152
Hicks, Thomas	14	169
Hill, Thomas	14	189
Hoeber, Arthur	14	308
Homer, Winslow	14	338
	21	124
	29	19
Hovenden, Thomas	14	451
Hubbard, Richard William	14	464
Hunt, William Morris	14	513
	21	125
Huntington, Daniel	14	517
Ingham, Charles Cromwell	15	130
Inman, Henry	15	140
Inness, George	15	142
	21	124
Innes, George, Jr	15	143
Isham, Samuel	15	410
Janvier, Catharine Ann	15	618
Jarvis, John Wesley	15	749
Jocelyn, Nathaniel	16	152
Johnson, Eastman	16	170
Johnston, John Humphreys	16	186
Jones, Francis Coates	16	196
Jones, Hugh Bolton	16	197
Jonett, Matthew Harris	16	215
Josephi, Isaac A	16	212
Keller, Arthur Ignatius	16	337
Kendall, William Sergeant	16	352
Kensett, John Frederick	16	360
	21	124
Knight, Daniel Ridgeway	16	481
Koehler, Robert	16	506
Kost, Frederick W	16	532
Kronberg, Louis	16	544
La Farge John	12	712
	15	222
	16	571
	19	601
	21	125
	22	431
	29	19
Lathrop, Francis	16	763
Lathrop, William Langson	16	764
Lawson, Ernst	17	154
Le Clear, Thomas	17	163
Leslie, Charles Robert	17	315
Leutze, Emmanuel	17	326
Lippincott, William Henry	17	471
Loeb, Louis	17	592
Lorimer, John Henry	17	663
Longfellow, Ernest Wadsworth	17	642
Loomis, Chester	17	652
Low, Will Hicok	17	696
Low, Mary Fairchild	17	697
Lucas, Albert Pike	17	714
Mac Cameron, Robert Lee	18	20
MacChesney, Clara T	18	22
McEntee, Jervis	18	45
McEwen, Walter	18	46
McIlhenney, Charles Morgan	18	62
McLaughlin, Mary Louise	18	75
Mackubin, Florence	18	74
Magrath, William	18	132

Biographies — cont'd	Vol.	Page
Malbone, Edward Greene	18	163
	19	171
Martin, Homer Dodge..	18	337
	21	124
	29	19
Martin, Thomas Mower.	18	339
Mathews, Ferdinand Schuyler	18	437
Matteson, Tompkins Harrison	18	441
Mayer, Constant	18	464
Mayer, Frank Blackwell	18	465
Maynard, George Willoughby	18	467
Miller, Charles Henry...	19	117
Miller, Richard E.	19	121
Millet, Francis Davis...	19	124
Minor, Robert Crannell.	19	209
Moeller, Louis	19	290
Moore, Harry Humphrey	19	431
Mora, Francis Luis	19	437
Moran, Edward	19	438
Moran, Peter	19	438
Moran, Thomas	19	438
Morrell, Imogene Robinson	19	473
Morse, Samuel Finley Breese	19	483
	21	123
Mosler, Henry	19	501
Mount, William Sidney..	19	524
Mowbray, Henry Siddons	19	541
Munn, George Frederic.	19	594
Murphy, John Francis..	19	606
Myers, Jerome	19	659
Naegele, Charles Frederick	19	679
Neagle, John	20	21
Neal, David Dalhoff	20	21
Nicholls, Rhoda Holmes	20	317
Nichols, Henry Hobart, Jr.	20	318
Oakley, Violet	20	529
Ochtman, Leonard	20	570
O'Donovan, William Rudolf	20	586
Oertel, Johannes Adams.	20	595
Ogilvie, Clinton	20	606
Olmstead, John C.	20	670
Otis, Bass	21	42
Page, William	21	97
Palmer, Walter Launt..	21	213
Pape, Eric	21	256
Parker, Lawton S.	21	328
Parrish, Maxfield	21	343
Parrish, Stephen	21	343
Parsons, Charles	21	349
Parton, Arthur	21	356
Pattison, James William	21	410
Paxton, William McGregor	21	431
Peale, Charles Willson..	21	123
	21	450
Peale, Rembrandt	21	451
Pearce, Charles Sprague	21	454
Peixotto, Ernest Clifford	21	475
Peixotto, George Da M.	21	476
Penfield, Edward	21	506
Perry, Roland Hinton..	21	607
Picknell, William Lamb	22	68
Platt, Charles Adams...	22	238
Poore, Henry Rankin..	22	355
Pordenone De Sacchis..	22	374
Pendergast, Maurice Brazil	22	532
Quartley, Arthur	23	64
Quidor, John	23	89
Ranney, William	23	213
Ranger, Henry Ward..	23	211

Biographies — cont'd	Vol.	Page
Rawson, Albert Leighton	23	237
Read, Thomas Buchanan	23	246
Redfield, Edward Willis.	23	287
Rehn, Frank Knox Martin	23	326
Reid, Robert	23	330
Reich, Jacques	23	327
Reinhart, Benjamin Franklin	23	334
Reinhart, Charles Stanley	23	334
Richards, Thomas Addison	23	492
Richards, William Trost	23	493
Rimmer, William	23	525
Ritschel, Wilhelm	23	542
Rix, Julian	23	556
Robinson, Frederick Cayley	23	580
Robinson, Theodore	23	583
Robinson, William S...	23	583
Rook, Edward Francis.	23	679
Rosen, Charles	23	697
Rosenthal, Max	23	697
Rosenthal, Toby Edward	23	697
Rossiter, Thomas Pritchard	23	712
Rothermel, Peter Frederick	23	717
Rousseau, Philippe	23	726
Rousseau, Pierre Etienne Théodore	23	726
Ryder Albert P.	21	126
Ryder, Albert Pinkham.	24	71
Sanderson, Charles	29	19
Sargent, Henry	24	303
Sargent, John Singer...	15	222
	21	126
	24	304
	29	19
Sartain, Emily	24	307
Sartain, William	24	307
Savage, Edward	24	321
Schinkel, Karl Friedrich	24	374
Schofield, Walter Elmer	24	385
Scott, Julian	24	440
Sears, Taber	24	490
Sellstedt, Lars Gustaf..	24	544
Sewell, Robert van Vorst	24	627
Sharpless, James	24	662
Shinn, Everett	24	715
Shinn, Florence Scovel..	24	715
Shirlaw, Walter	24	737
Shurtleff, Roswell Morse	24	761
Simmons, Edward Emerson	25	22
Smedley, William Thomas	25	109
Smillie, George Henry..	25	111
Smillie, James D.	25	111
Smith, Francis Hopkinson	25	116
	29	19
Smybert, John	21	122
Snell, Henry Bayley	25	146
Speicher, Eugene Edward	25	385
Staigg, Richard M.	25	471
Sterner, Albert Edward.	25	632
Stewart, Julius	25	644
Stillman, William James	25	650
Stimson, John Ward	25	651
Stokes, Frank Hilbert..	25	669
Storey, George Adolphus	25	697
Story, George Henry...	25	699
Story, Julian	25	699
Stuart, Gilbert	21	123
	25	745
Sully, Thomas	25	809
Symons, George Gardner	26	168
Tait, John Robinson	26	219

Biographies — cont'd	Vol.	Page
Tanner, Henry Ossawa..	26	245
Tarbell, Edmund C.	26	266
Taylor, Charles Jay	26	297
Taylor, William Ladd..	26	302
Thayer, Abbott Handerson	26	489
Thompson, Wordsworth.	26	580
Tiffany, Louis C.	29	19
Toaspern, Otto	26	658
Trotter, Newbold Hough	27	95
Trumbull, Gurdon	27	104
Trumbull, John	27	105
Tryon, Dwight William	27	116
Turner, Charles Yardley	27	203
Turner, Ross Sterling...	27	204
Twachtman, John Henry	27	213
	29	19
Tyler, James Gale	27	231
Ulrich, Charles Frederic	27	263
Vanderlyn, John	27	682
Van Dyke, John Charles	27	671
Van Ingen, William Brantley	27	672
Van Laer, Alexander Theobald	27	672
Vedder, Elihu	27	714
Volk, Douglas	28	173
Vonnoh, Bessie Potter..	28	185
Vonnoh, Robert William	28	185
Waldo, Samuel Lovett..	28	223
Walker, Henry Oliver...	28	227
Walker, James	28	228
Waller, Frank	28	241
Ward, Edgar Melville...	28	697
Warner, Everett Longley	28	706
Watrous, Harry Wilson.	29	108
Waugh, Frederick Judd.	29	114
Webster, Herman Armour	29	150
Weeks, Edwin Lord	29	157
Weir, John Ferguson...	29	173
Weir, Julian Alden	29	173
Weir, Robert Walter	29	173
Weitenkampe, Frank	29	175
West, Benjamin	21	122
Whistler, James Abbott McNeill	29	261
Whistler, James McNeill	21	125
	29	19
White, John Blake	29	267
Whittredge, Worthington	29	287
Wiggins, Guy Carleton.	29	298
Wiggins (John), Carleton	29	298
Wiles, Irving Ramsey...	29	19
	29	316
Willard, Archibald M...	29	325
Williams, Frederick Ballard	29	339
Wright, Joseph	29	569
Wood, Thomas Waterman	29	475
Woodbury, Charles Herbert	29	492
Wohlgemuth, Michael...	29	435
Wyant, Alexander	21	124
Wyant, Alexander Helwig	29	579
Wylie, Robert	29	581
Zogbaum, Rufus Fairchild	29	720

GREAT BRITAIN

Allan, Sir William	1	409
Alma-Tadema, Lawrence	1	431
Armitage, Edward	2	273
Baines, Thomas	3	55
Ballantine, James	3	97
Barry, James	3	285
Barker, Thomas Jones..	3	256
Bayliss, Sir Wyke	3	365

Biographies — cont'd	Vol.	Page
Beechey, Sir William	3	428
Bird, Edward	3	726
Blake, William	4	56
Bonington, Richard Parkes	4	218
Bennington, Richard Parkes	4	218
Boughton, George Henry	4	324
Bourgeois, Peter Francis	4	350
Brangwyn, Frank	4	414
Brockedon, William	4	571
Brown, Ford Madox	4	605
Brown, Oliver Madox	4	610
Burne-Jones, Sir Edward	5	54
Calderon, Philip Hermogenes	5	186
Callcott, Augustus Wall	5	226
Carpenter, Margaret Sarah	5	653
Cattermole, George	6	109
Chalmers, George Paul	6	235
Clark, Joseph	7	42
Clausen George	7	63
Cole, George Vicat	7	241
Collins, William	7	269
Constable, John	7	551
Cope, Charles West	7	695
Carbould, Edward Henry	7	680
Cox, David	8	139
Cozens, John Robert	8	146
Craig, Frank	8	150
Creswick, Thomas	8	186
Crofts, Ernest	8	220
Crome, John	8	221
Crome, John Berney	8	221
Crowe, Eyre	8	246
Daniell, Samuel	8	456
Daniell, Thomas	8	456
Daniell, William	8	456
Dawson, Henry	8	536
De Wint, Peter	9	46
Dobson, William	9	215
Douglas, William Fettes	9	281
Doyle, Richard	9	290
Duncan, Thomas	9	401
Dyce, William	9	448
East, Alfred	9	561
Eastlake, Charles Lock	9	612
Egg, Augustus Leopold	9	722
Elmore, Alfred	10	261
Engleheart, George	10	359
Etty, William	10	558
Faed, John	10	707
Faed, Thomas	10	707
Farquharson, Joseph	11	45
Fielding, Anthony Vandyke Copley	11	183
Fildes (Samuel), Luke	11	266
Forbes, Stanhope Alexander	11	461
Foster, Myles Birket	11	529
Frith, William Powell	12	113
Frost, William Edward	12	124
Gainsborough, Thomas	12	228
Gilbert, John	12	649
Girtin, Thomas	20	17
Goodall, Frederick	13	57
Greenway, Kate	13	426
Guthrie, James	13	529
Haag, J. Carl	13	600
Hamilton, Gavin	13	658
Harlow, George Henry	13	711
Herbert, John Rogers	14	120
Herkomer, Sir Hubert von	14	129
Hilliard, Nicholas	19	171
Hogarth, William	14	311
Hole, William	14	316
Holl, Frank	14	316
Holmes, Charles John	14	322
Horsley, John Calcott	14	416
Hunt, William Henry	14	513
Hunt, William Holman	14	513
Hurst, Hal	14	522
Jansen, Cornelius	15	616
Janssen, Cornelius	15	616
Johnson, Cornelius	15	616
Joy, George William	16	225
Kay, John	16	323
Kempe, Charles Eamer	16	349
Kneller, Sir Godfrey	16	478
Lance, George	16	689
Landseer, Sir Edwin Henry	16	711
Langley, Walter	16	721
Lawrence, Sir Thomas	17	147
Lawson, Cecil Gordon	17	154
Laurence Samuel	17	109
Lavery, John	17	119
Leader, Benjamin Williams	17	174
Lear, Edward	17	178
Legros, Alphonse	17	257
Leighton, Frederick	17	268
Linnell, John	17	461
Linton, James Dromgole	17	467
Lover, Samuel	17	696
Lucas, John Seymour	17	714
Maclise, Daniel	18	80
Macwhirter, John	18	92
Menpes, Mortimer	18	636
Millais, John Everett	19	115
Millais, John Gaille	19	115
Morland, George	19	460
Mortimer, John Hamilton	19	488
Moscheles, Felix	19	494
Muller, William James	19	559
Mulready, William	19	561
Nasmyth, Alexander	19	718
Nasmyth, Patrick Milner	19	718
Newton, Gilbert Stuart	20	288
Nicholson, William	20	321
Nicol, Erskine	20	326
Nisbet, Robert Buchan	20	369
Normand, Henrietta Rae	20	405
North, Maranne	20	409
Northcote, James	20	427
Orchardson, William Quiller	20	740
Opie, John	20	709
Ouless, Walter William	21	52
Palmer, Samuel	21	213
Parsons, Alfred William	21	348
Partridge, Bernard	21	356
Paton, Joseph Noel	21	400
Peele, John Thomas	21	469
Pettie, John	21	697
Philip, John	21	762
Phillips, Thomas	21	764
Porter, Robert Ker	22	392
Poynter, Edward John	22	499
Prinsep, Valentine Cameron	22	588
Prout, Samuel	22	697
	29	18
Qvigstgaard, J. W. von Rehling	23	101
Raeburn, Sir Henry	23	131
Ramsay, Allan	23	205
Reid, George	23	329
Reynolds, Joshua	23	453
Richmond, William Blake	23	499
Redgrave, Richard	23	287
Riley, John	23	524
Rivière, Briton	23	555
Roberts, David	23	568
Roche, Alexander	23	588
Romney, George	23	675
Ross, William Charles	23	705
Rossetti, Dante Gabriel	23	708
Rowlandson, Thomas	23	733
Runciman, Alexander	23	774
Ryland, Henry	24	73
Sandby, Paul	24	253
Scott, David	24	438
Scott, William Bell	24	445
Serres, Dominic	24	601
Serres, John Thomas	24	602
Severn, Joseph	24	622
Shaw, Byam	24	664
Sheard, T. F. M.	24	670
Shee, Martin Archer	24	671
Smirke, Robert	25	111
Solomon, Solomon Joseph	25	243
Soord, Alfred Usher	25	259
Spenlove - Spenlove, Frank	25	395
Stanfield, William Clarkson	25	481
Staples, Robert Ponsonby	25	488
Stokes, Adrian	25	668
Stone, Frank	25	678
Stone, Marcus	25	678
Stothard, Thomas	25	701
Thomson, John	26	584
Thornhill, James	26	588
Turner, Joseph Mallord Williams	27	208
	29	18
Walker, Frederick	28	227
Ward, Edward Matthew	28	697
Ward, James	28	698
Waterhouse, John William	29	70
Watts, George Frederick	29	113
Weir, Harrison William	29	172
Westall, Richard	29	220
Westlake, Nathaniel Hubert John	29	223
Wheatley, Francis	29	245
Wilkie, Sir David	29	321
Wilson, Richard	29	362
Zaufelby, Johann	29	720
Zoffany, Johann	29	720

FRANCE

Alaux, Jean	1	328
Attirest, Jean Denis	2	525
Aublet, Albert	2	580
Barrias, Felix Joseph	3	278
Bastien Lepage, Jules	3	328
Baudry, Paul	3	348
Bellange, Hippolyte	3	348
Benjamin-Constant, Jean Joseph	3	518
Beraud, Jean	3	535
Berne-Bellecour, Étienne Prosper	3	571
Bernier, Camille	3	574
Bertier, Francisque Edouard	3	581
Bertin, Nicolas	3	582
Bertrand, James	3	582
Biard, François August	3	611
Besnard, (Paul) Albert	3	585
Bida, Alexandre	3	684
Bin, Emile Jean Baptiste Philippe	3	713
Blanc, Paul Joseph	4	59
Blanchard, Jacques	4	59
Blanche, Jacques	11	691
Boilly, Louis Leopold	4	174
Boissieu, Jean Jacques de	4	175
Bonheur, François Auguste	4	214
Bonheur, Jules Isadore	4	214
Bonheur, Marie Rosa	4	214
Bonnat, Léon Joseph Florentin	4	219
	11	691

Biographies — cont'd	Vol.	Page
Borgognone, Jacopo Cortesi	4	272
Boucher, François	4	320
	11	690
Boudin, Eugène	4	322
Bouguereau, Adolphe William	4	325
Boulanger, Gustave Clarence Rodolphe	4	327
Boulanger, Louis	4	327
Bourdon, Sébastien	4	349
Bracquemond, Joseph Felix Auguste	4	383
Breton, Jules Adolphe	4	471
Brion, Gustave	4	543
Brissot De Warville, Félix Saturnin	4	546
Busson, Charles	5	75
Butin, Ulysse Louis Auguste	5	78
Cabat, Nicolas Louis	5	115
Cabanel, Alexandre	5	114
Callet, Antoine François	5	227
Carolus-Duran, Auguste Emile	5	649
Casin, Jean Charles	6	156
Cassas, Louis François	5	707
Castaigne, André	5	719
Cézanne, Paul	6	239
	11	692
Chardin, Jean Baptiste Siméon	6	304
Charlet, Nicolas Toussaint	6	332
Chaplin, Charles Joshua	6	297
Charpentier, Louis Eugène	6	336
Chartran, Théobald	6	341
Chavannes, Puvis de	11	691
	15	222
	23	36
Chenavard, Paul Joseph	6	410
Cheret, Jules	6	414
	22	436
Chintreuil, Antoine	6	561
Clairin, George Jules Victor	7	80
Claude, Lorrain	7	61
	11	689
	21	129
Claude, Lorraine	7	61
	11	689
	21	129
Clouet, François	7	132
Clouet, Jehan	7	132
Clouet, Jehannet	7	132
Clouet, Jean	19	171
Cogniet, Leon	7	214
Collin, Louis Joseph Raphael	7	267
Constant, Jean Joseph Benjamin	7	553
	11	691
Corot, Jean-Baptiste-Camille	8	1
	11	690
Cortesi, Jacopo	4	272
Cortesi, Giacomo	4	272
Cot, Pierre Auguste	8	56
Cottet, Charles	8	59
Comte, Pierre Charles	7	456
Couder, Louis Charles Auguste	8	91
Courbet	8	112
	11	690
Courtois, Gustave Claude Étienne	8	127
Courtois, Jacques	4	272
	8	127
Cousin, Jean (The Younger)	8	127
Cousin, Jean (The Elder)	8	127
Couture, Thomas	8	128
Coypel, Antoine	8	142
Coypel, Charles-Antoine	8	142
Coypel, Noël	8	142
Coypel, Noel-Nicolas	8	142
Dagnan-Bouveret, Pascal Adolphe Jean	8	392
Dantan, Joseph Edouard	8	463
Dauban, Jules Joseph	8	491
Daubigny, Charles François	8	492
	11	690
Daumier, Honoré	8	494
	11	690
David, Jacques Louis	8	501
Dawant, Albert Pierre	8	515
Debat-Ponsan, Edouard	8	542
Debay, Auguste Hyacinthe	8	542
Decamps, Alexandre Gabriel	8	555
	11	690
Defaux, Alexandre	8	585
Degas, Edgar Hilaire Germain	8	594
	11	691
Delacroix, Ferdinand Victor Eugène	8	604
	11	690
	29	18
Delaroche, Paul	8	607
Delaunay, Jules Élie	8	608
	11	691
Delecluze, Etienne Jean	8	618
Delorme, Pierre Claude François	8	625
Delort, Charles Edouard	8	625
Denon, Dominique Vivant	8	687
Desgoffe, Blaise Alexandre	9	9
Detaille, Jean Baptiste Edouard	9	16
	11	691
Diaz De La Pena, Narcisse Virgile	9	76
	11	690
Didier, Jules	9	92
Doré, Paul Gustave	9	264
Doucet, Henri Lucien	9	276
Doyen, Gabriel François	9	289
Drouais, François Hubert	9	340
Drouais, Hubert	9	340
Drouais, Jean Germain	9	340
Dubufe, Edouard	9	375
Dubufe, Edouard Marie Guillaume	9	375
Ducornet, Louis César Joseph	9	381
Duez, Ernest	9	386
Dupaty, Louis Marie Charles Mercier	9	410
Dupré, Jules	9	415
Dupré, Julien	9	415
Duran, Carolus	11	691
Earliest French Historical Painter	8	127
Errard, Charles	10	484
Etex, Antoine	10	531
Fabre, François Xavier Pascal	10	694
Fantin-Latour, Henri (Ignace Henri Jean Théodore)	11	13
Feyen, Eugène	11	163
Feyer-Perrin, François Nicolas Augustin	11	164
Fichel, Eugène	11	171
Flameng, François	11	330
	11	691
Flandrin, Jean Hippolyte	11	333
Flandrin, Jean Paul	11	334
Foucquet, Jean	11	532
Foucquet, Jehan	11	548
Fouquet, Jean	11	689
Fouquet, Jehan	11	548
Fragonard, Alexandre E.	11	571
Fragonard, Jean Honoré	11	571
Français, François Louis	11	572
Frére, Charles Théodore	12	88
Frére, Pierre Edouard	12	88
Fromentin, Eugène	11	690
	12	121
Fulgurant, Songeur	11	690
Gaillard, Claude Ferdinand	12	226
Ganquin, Paul	11	691
Gandòra, Antonio de la	11	691
Gauguin, Paul	11	693
	12	339
Gendron, Auguste	12	369
Geoffroy, Jean	12	407
Gérard, François Pascal	12	493
Gericault, Jean-Louis André Théodore	12	496
Gérôme, Jean Léon	11	691
	12	622
Giacomotti, Félix Henri	12	636
Gignoux, François	12	647
Gigoux, Jean	12	647
Goupil, Jules Adolphe	13	84
Granet, François Marius	13	131
Greuse, Jean Baptiste	13	463
Gros, Antoine-Jean	13	485
Guérin, Pierre Narcisse	13	525
Guillaumet, Gustave Achille	13	537
Hamon, Jean Louis	13	667
Harpignies, Henri Joseph	13	722
Hippolyte, Paul	8	607
Ingres, Jean Dominique Auguste	11	690
	15	132
Isabey, Louis Gabriel Eugène	15	406
Isabey, Jean Baptiste	15	406
Jacque, Charles Emile	15	593
Jeanron, Philippe Auguste	15	766
Lambert, Eugène Louis	16	672
Lancret, Nicolas	16	690
Largilliere, Nicolas	16	748
La Tour, Maurice Quentin de	11	690
	16	584
Laugée, Georges	17	102
Laugee, Désiré François	17	102
Laurens, Jean Paul	11	691
	17	109
Léandre, Charles Lucien	17	178
Lebrun, Charles	17	208
Lebrun, Marie L. E	17	209
Lefebvre, Jules	17	232
Legros, Alphonse	17	257
Lehmann (Charles Ernest Rodolphe), Henri	17	259
Lenepven, Jules Eugène	17	285
Leroux, Louis Eugène	17	313
Leroux, Hector	17	312
Lesueur, Eustache	17	319
Lévy, Emile	17	331
Lévy, Henry	11	691

Biographies — cont'd	Vol.	Page
Lorrain, Claude	7	61
	11	689
	21	129
Lorraine, Claude	7	61
	11	689
	21	129
Maignan, Albert	18	139
Manet, Edouard	18	208
Martin, Henry	11	691
Mattier, Jean Marc	19	768
Meissonier, Jean Louis Ernest	18	598
Merson, Luc Oliver	18	683
Méryon, Charles	18	684
Michel, François Emile	19	15
Mignard, Pierre	19	47
Millet, Jean François	11	690
Monet, Claude	11	691
	19	343
Monticelli, Adolphe	19	410
Moreau, Gustave	11	690
	19	445
Morisot, Berthe	11	691
Müller, Charles Louis	19	556
Müntz, Eugène	19	598
Nehlig, Victor	20	61
Neuville, Alphonse Marie de	20	105
Peel, Paul	21	468
Philippe De Champaigne	21	746
Philippoteaux, Henri Emmanuel Félix	21	759
Picot, François	22	69
Pils, Isidore Alexandre Auguste	22	90
Pissaro, Camille	11	691
	22	118
Poussin, Nicolas	11	689
	22	474
Prudhon, Pierre Paul	11	690
	22	712
Puget, Pierre Paul	22	792
Puvis De Chavannes, Pierre	23	36
Raoux, Jean	23	215
Redon, Odilon	11	693
Regnault, Alexandre Georges Henri	23	324
Regnault, Jean Baptiste	23	325
Renoir, Auguste	11	691
	23	379
Renouf, Emile	23	379
Ribot, Augustin Théodule	23	483
Rigaud, Hyacinthe	23	518
Robert-Fleury, Joseph Nicolas	23	566
Robert-Fleury, Tony	23	566
Robert, Louis Leopold	23	565
Rochegrose, Georges	23	589
Roll, Alfred Philippe	23	635
Rouget, Georges	23	720
Sisley, Alfred	11	691
	25	47
Tassaert, Nicolas François Octave	26	280
Tissot, James	26	646
Tour, Maurice Quenti de la	26	719
Troyon, Constant	11	690
	27	101
Vernet, Antoine Charles Horace	28	32
Vernet, Claude Joseph	28	32
Vernet, Jean Emile Horace	28	32
Vibert, Jean Georges	28	56
Vien, Joseph Marie	28	78
Vollon, Antoine	28	174
Vouet, Simon	11	689
	28	193

Biographies — cont'd	Vol.	Page
Watteau, Jean Antoine	11	690
	29	112
Yvon, Adolphe	29	678
Ziem, Felix	29	708

GERMANY

Biographies — cont'd	Vol.	Page
Achen, Johann von	1	87
Achenbach, Andreas	1	87
Achenbach, Oswald	1	87
Acken, Johann von	1	87
Ainmuller, Maximilian Emmanuel	1	274
Altdorfer, Albrecht	1	446
Baldung, Hans	3	75
Becker, Karl Ludwig Friedrich	3	405
Beham, Barthel	3	445
Begas, Karl	3	442
Begas, Oskar	3	422
Bendermann, Eduard	3	502
Bemmel, Peter von	3	498
Bellermann, Ferdinand	3	482
Blechen, Karl Eduard	4	74
Bleibtreu, Georg	4	76
Bokelmann, Christian Ludwig	4	177
Bracht, Felix Prosper Eugen	4	381
Braith, Anton	4	408
Braun, Louis	4	421
Brendel, Heinrich Albert	4	465
Brütt, Ferdinand	4	645
Bruyn, Barthel	4	646
Burger, Ludwig	5	37
Burgkmair, Hans	5	39
Burkel, Heinrich	5	48
Camphausen, Wilhelm	5	283
Catel, Franz	6	49
Conrader, Georg	7	536
Cornelius, Peter Von	7	710
Cranach, Lucas	8	153
	12	559
Däge, Eduard	8	391
Deger, Ernst	8	597
Denner, Balthazar	8	685
Dietrich, Christian Wilhelm Ernst	9	105
Dietz, Feodor	9	105
Dill, Ludwig	9	120
Douzette, Louis	9	283
Dreber, Heinrich	9	322
Dürer, Albrecht	9	421
	12	559
	16	706
Eberle, Robert	9	520
Ebers, Emil	9	520
Echter, Michael	9	544
Elsheimer, Adam	10	265
Emelé, Wilhelm	10	285
Enhuber, Karl von	10	389
Fay, Joseph	11	72
Feuerbach, Anselm	11	161
Fitger, Arthur Heinrich Wilhelm	11	290
Flickel, Paul	11	352
Flüggen, Gisbert	11	402
Foltz, Philip von	11	424
Friedrich, Kaspar David	12	105
Friedrich, Woldemar	12	105
Friese, Richard	12	109
Frommel, Karl Ludwig	12	121
Fuger, Heinrich	12	148
Gebhardt Eduard, von	12	351
Geddes, Andrew	12	353
Geertz, Julius	12	355
Genelli, Bonaventura	12	371
Gentz, Wilhelm Karl	12	403
Gerhardt, Eduard	12	496
Goetz, Theodor von	13	6
Griepenkerl, Christian	13	469
Grünewald, Matthäus	13	505
Grün, Hans	3	75

Biographies — cont'd	Vol.	Page
Grützner, Eduard	13	505
Hagen, Theodor	13	614
Hertel, Albert	14	152
Hofmann, Heinrich	14	310
Holbein, Hans	12	559
	14	314
	23	372
Horschelt, Theodor	14	385
Hübner, Julius	14	466
Jank, Angelo	15	613
Janssen, Peter	15	617
Kalckreuth, Stanislaus	16	282
Kalkar, Jan Stephan von	16	284
Kampf, Arthur	16	288
Kaulbach, Friedrich	16	320
Kaulbach, Friedrich August	16	320
Kaulbach, Hermann	16	321
Kaulbach, Wilhelm von	16	321
Keller, Ferdinand	16	337
Knackfuss, Hermann	16	476
Knaus, Ludwig	16	477
Knille, Otto	16	487
Kobell, Franz	16	502
Kobell, Hendrik	16	502
Kobell, Wilhelm von	16	502
Kotzebue, Alexander von	16	535
Kranach, Lucas	8	153
Kreling, August von	16	540
Kronach, Lucas	8	153
Kuehl, Gotthardt J	16	551
Lehmann, Rudolf	17	260
Leibl, Wilhelm	17	261
Lenbach, Franz von	17	284
Lessing, Karl Friedrich	17	318
Lochner, Stephen	17	559
Lockwood, Wilton	17	564
Lofftz, Ludwig	17	593
Markart, Hans	12	560
Max, Gabriel von	18	454
Mengs, Anton Raphael	18	629
Menzel, Adolf Friedrich Erdmann von	18	652
Meyer, Johann Georg	19	3
Meyerheim, Friedrich Eduard	19	4
Meyerheime, Paul	19	4
Müller, Friedrich	19	556
Müller, Victor	19	558
Neureuther, Eugen Napoleon	20	100
Northen, Adolph	20	428
Oehme, Ernst Erwin	20	593
Oeser, Adam Friedrich	20	595
Oesterley, Karl	20	595
Oesterley, Karl Wilhelm	20	596
Overbeck, Johann Friedrich	21	58
Pencz, Georg P	21	497
Piglhein, Bruno	22	81
Piloty, Ferdinand	17	514
	22	89
Piloty, Karl von	22	90
Prell, Hermann	22	529
Preller, Friedrich	22	529
Preller, Friedrich Johann Christian Ernst	22	530
Ramberg, Arthur	23	200
Ramberg, Johann Heinrich	23	200
Raupp, Karl	23	232
Reinhart, Johann Christian	23	334
Reinicke, Paul René	23	335
Reinick, Robert	23	335
Rethel, Alfred	23	436
Retzsch, Moritz	23	437
Richter, Adrian Ludwig	23	507
Richter, Gustav	23	507
Rooss, Johann Heinrich	23	680
Rottmann, Carl	23	719
Rugendas, Georg Philipp	23	756

Biographies — cont'd	Vol.	Page
Sandrart, Joachim von..	24	256
Schadow - Godenhaus, Friedrich Wilhelm....	12	560
	24	361
Schirmer, Johann Wilhelm	24	375
Schnorr, Von Karolsfeld, Julius	24	383
Schoenleber, Gustav.....	24	384
Schöngauer, Martin.....	12	559
Schrader, Julius.....	24	402
Schreyer, Adolf.....	24	402
Sohn, Karl Ferdinand..	25	224
Stuck, Franz.....	25	750
Thumann, Paul.....	26	599
Tischbein, Johann Friedrich August.....	26	644
Tischbein, Johann Heinrich	26	644
Uhde, Fritz von.....	27	253
Veit, Philipp.....	27	721
Von Piloty, Karl.....	12	560
Werner, Anton Alexander von.....	29	194
Winterhalter, Franz Xavier	29	403
Zimmerman, Albert.....	29	709

ITALY

Biographies — cont'd	Vol.	Page
Abbate, Nicolo.....	1	11
Abati, Nicolo.....	1	11
Albani, Francesco.....	1	324
Albertinelli, Mariotto...	1	337
Allegri, Antonio.....	15	526
Alunno, Niccolo.....	1	458
	15	525
Amalteo, Pomponio.....	1	462
Appiani, Andrea.....	2	83
Arentino, Spinello.....	15	522
Attavante, Marco.....	2	521
Azeglio, Massimo Taparelli	2	688
Bagnacavallo, Bartolomeo Ramenghi.....	3	42
Baldovinetti, Alessio....	3	75
Balestra, Antonio.....	3	79
Barocci, Federigo.....	3	270
Baroccio, Federigo.....	3	270
Bartoli, Pietro Santi....	3	295
Bassano, Jacopo.....	3	317
Batoni, Pompeo Girolamo	3	340
Beccafumi, Domenico di Pace	3	401
Bellini, Gentile.....	3	488
	21	128
Bellini, Giovanni	3	488
	15	526
	15	532
	21	128
Bellini, Jacopo.....	3	489
Bellotto, Bernardo.....	3	491
Beltraffio, Giovanni Antonio	3	495
Bertini, Giuseppe.....	3	582
Bianchi, Francesco.....	3	610
Bibbiena, Giuseppe.....	3	612
Bigordi, Domenico.....	3	699
	12	634
Boccaccino, Boccaccio...	4	139
Boldini, Giovanni.....	4	179
	15	532
Boltraffio, Giovanni Antonio	3	495
Bonasone, Giulio.....	4	208
Bondone, Giotto di.....	12	661
	21	113
Bonfiglio, Benedetto....	4	214
Bonifazio	4	217
Bonifazio I.....	4	217
Bonifazio II.....	4	217
Bonifazio III, Veneziano	4	217
Boninsegna, Duccio di.	15	522
Bonone, Carlo.....	4	222
Bonvicino, Alessandro...	4	469
	19	448
Bonvin, François Saint.	4	223
Bordone, Paris.....	4	269
Borghese, Piero.....	11	750
Borgognone, Ambrogio di Stefano.....	4	272
Botticelli, Sandro.....	4	316
	15	524
Brumidi, Constantine...	4	630
Buffalmacco	4	688
Bugiardini, Giuliano....	4	699
Buonaccorsi, Pietro.....	27	639
Buonfiglio, Benedetto...	4	214
Buontalenti, Bernardo..	5	29
Caffi, Ippolito.....	5	143
Cagliare, Paolo.....	25	54
	28	34
Calvi, Lazzaro.....	5	237
Calvi, Pantalone.....	5	237
Cambiaso, Luca.....	5	245
Campi, Bernardino.....	5	284
Campi, Giulio.....	5	284
Camuccini, Vincenzo....	5	287
Canaletto, Antonio.....	5	481
Canale, Antonio.....	5	481
Canlassi, Guido.....	5	501
Canoppi, Antonio.....	5	525
Cantarini, Limone.....	5	529
Caracci, Agostino.....	5	661
Caravaggio Da Polidoro	5	585
Caravaggio, Michel-Angelo Merisio.....	5	584
	15	530
Cardi, Lodovico.....	5	599
Carlone, Andrea.....	5	619
Carlone, Giovanni A....	5	619
Carlone, Giovanni Battista	5	619
Caroli, Pietro.....	5	646
Carotto family.....	5	650
Carpaccio, Vittore.....	5	650
Carracci, Agostino.....	5	661
Carracci, Annibale.....	5	662
Carracci, Lodovico.....	5	662
Carriera, Rosalba.....	5	671
Casanova, Francesco....	5	694
Castagno, Andrea del..	5	719
	15	524
Castiglione, Giovanni Benedetto	6	6
Cavazzoni Zanotti, Giovanni Pietro.....	29	687
Cavedone, Jacopo.....	6	149
Cellini, Benvenuto.....	6	173
Cesari, Giuseppi.....	6	230
Christofani, Buonamico.	4	688
Ciardi, Beppi.....	15	532
Cignani, Carlo.....	6	676
Cignaroli, Giovanni Bettino	6	676
Cimabue, Giovanni.....	6	676
Cipriani, Giambattista..	6	690
Clovio, Guilio.....	19	171
Coghetti, Francesco.....	7	214
Correggio, Antonio Allegri	8	18
	15	525
	25	54
Cortona, Luca da.....	24	804
Cortona, Pietro Berettini	8	28
Cortona, Pietro di.....	8	28
Cosimo, Piero Di.....	22	76
Cossa, Francesco	8	38
	15	525
Costa, Lorenzo.....	8	39
Credi, Lorenzo.....	8	171
Crespi, Guiseppe Maria.	8	182
Crivelli, Carlo.....	15	525
Dolci, Carlino.....	9	233
Dolci, Carlo.....	9	233
Domenichino	9	240
Domenico, Zampieri....	9	240
Dosso, Dossi.....	9	270
Duccio Di Boninsegna..	9	376
D'Arezzo, Margaritone..	18	280
Espada, Leonello.....	25	321
Fabriano, Gentile da....	10	695
	15	524
Fabius	15	517
Fagnani, Joseph.....	10	710
Falcone, Anielle.....	10	726
Falconetto, Giovanni Maria	10	727
Fansaga, Cosimo.....	11	12
Fattori, Giovanni.....	11	58
Ferrari, Gaudenzio.....	11	137
Ferri, Ciro.....	11	140
Feti, Domenico.....	11	157
Filipepi, Alessandro....	4	316
Fiorenzo, Di Lorenzo...	11	229
Flandin, Eugène Napoléon	11	333
Fontana, Lavinia.....	11	426
Foppa, Vincenzo.....	11	458
Forli, Melozzo da.....	11	489
Fra Angelico.....	11	187
	11	568
Fragiacomo, Pietro.....	15	532
Francesca, Piero della..	11	750
Francia	11	754
Franciabigo	11	754
Franco, Giovanni Battista	12	1
Francucci, Innocenzo di Pietro	14	721
Gaddi	12	216
Garofalo, Benvenuto....	12	296
Gatti, Bernardino.....	12	338
Genga, Girolamo.....	12	396
Ghirlandajo II.....	12	634
Giorgione	12	661
Giotto	11	554
	12	661
	15	522
	19	601
Giustino, Giunta di....	22	116
Giuzlio, Romano.....	12	669
Gozzoli, Benozzo.....	15	524
	22	115
Grimaldi, Giovanni Francesco	13	474
Guardi, Francesco.....	13	514
Guercino Da Cento.....	13	524
Guido of Siena.....	13	533
Imola, Innocenzo da....	14	721
Lanfranco, Giovanni....	16	715
Lippi, Filippino.....	17	470
Lippi, Fra Filippo del Carmine	17	470
Lippi, Fra Lippo.....	15	524
Lippi, Lorenzo.....	17	470
Luini, Bernardino.....	17	724
Lutero, Giovanni di Nicolo	9	270
Mantegna, Andrea.....	15	446
	18	237
	23	373
Maratta, Carlo.....	18	263
Maratti, Carlo.....	18	263
Margaritone	18	280
Martini, Simone.....	15	522
	18	341
Masaccio, Tommaso....	18	373
Mazzola, Francesco.....	18	473
Mazzuoli, Francesco....	18	473
Michelangelo, Buonarroti	15	524
	19	15
	23	374

Biographies — cont'd	Vol.	Page
Mola, Pietro Francesco.	19	310
Montagna, Bartolommeo	19	380
Morelli, Domenico.....	19	446
Moretto Da Brescia.....	19	448
Moroni, Giovanni Battista	19	471
Muziano, Girolamo.....	19	657
Niccolo, Alunno.....	20	310
Nittis, Guiseppe de.....	15	582
	20	378
Oggione, Marco da.....	20	606
Oggiono, Marco da.....	20	606
Operti, Albert.....	20	706
Orcagna	20	738
Pacchiaroto, Jacopo....	21	87
Padovanino, Il.....	27	692
Palma, Giacomo.....	21	210
Pannini, Giovanni Paolo	21	247
Parmigiano, Il.....	21	340
Pasini, Alberto.....	21	366
Patti, A.....	15	582
Pepe, Giovanni di.....	15	522
Perugino	15	525
	21	650
Peruzzi, Baldassare.....	21	652
Pinturicchio	22	104
Piombo, Sebastiano del.	22	105
Pisa, Guinta di.....	22	116
Pisano, Giovanni.....	22	116
Pisano, Giunta.....	22	116
Pisano, Niccola.....	22	116
Pisano, Vittore.....	22	116
Pontormo, Jacopo Carucci	22	352
Poussin, Gaspar.....	22	474
Primaticcio, Francesco..	22	577
Procaccini	22	625
Procaccini, Camillo.....	22	625
Procaccini, Carlo Antonio	22	625
Procaccini, Giulio Cesare	22	625
Procaccini, Ercole.....	22	625
	22	626
Raphael Santi.....	15	528
	23	216
	25	54
Reni, Guido.....	15	529
	23	376
Romanino, Girolamo....	23	652
Rosselli, Cosimo.....	23	707
Rossi, Francesco de....	23	710
Sarto, Andrea del.....	23	374
Sartorelli, Francesco....	15	532
Sassoferato, Giovanni Battista Salvi.....	24	310
Schedone, Bartolommeo.	24	364
Schiavone, Andrea.....	24	369
Schidone, Bartolommeo..	24	364
Segantini, Giovanni....	15	532
	24	530
Serlio, Sebastian.....	24	597
Serra, Luigi.....	15	532
Sesto, Cesare da.....	24	607
Signorelli, Luca	15	524
	24	804
Sodoma, Il.....	25	224
Solario, Andrea da.....	25	237
Solario, Antonio.....	25	237
Spada, Leonello.....	25	321
Spagna, Lo.....	25	322
Spinello, Aretino.....	25	413
Spinello, Di Luca.....	25	413
Squarcione, Francesco...	25	462
Starnina, Gherardo.....	25	495
Strozzi, Bernardo.....	25	741
Tibaldi, Pellegrino.....	26	605
Tiepolo, Giovanni Battista	26	619
Tintoretto, Jacopo Robusti	25	54
	26	642

Biographies — cont'd	Vol.	Page
Titian	15	526
	18	771
	25	54
	26	648
Tura, Cosmé.....	15	525
Uccello, Paolo.....	15	524
	21	639
	27	250
Udine, Giovanni da.....	27	251
Vaga, Perino Del.....	27	639
Vannucci, Pietro Cristoforo	21	650
Varotari, Alessandro....	27	692
Vasari, Giorgio.....	27	693
Vecelli, Tiziano.....	26	648
Veronese, Paul.....	28	34
Verrocchio, Andrea del.	28	35
Vinci, Leonardo da.....	15	525
	23	374
	25	54
	28	98
Vivarini, Antonio.....	28	156
Vivarini, Bartolommeo..	28	156
Volterra, Daniele da....	28	177
Zanotti, Giovanni Pietro	29	687
Zuccarelli, Francesco...	29	736
Zuccaro, Federigo.....	29	736
Zuccherelli, Francesco..	29	736
Zucchero, Federigo.....	29	736
Zucchi, Antonio Pietro.	29	736

NETHERLANDS

Biographies — cont'd	Vol.	Page
Acken, Hieronymus van.	4	285
Backer, Jakob.....	3	17
Backhuysen, Ludolf.....	3	18
	3	62
	20	95
Beijeren, Abraham Van.	3	449
Bercham, Nikolaas.....	3	537
Berckheyde, Gerrit.....	3	538
Berghem, Nikolaas.....	3	537
	20	95
Bles, Henri.....	4	80
Bloemaert, Abraham.....	4	102
	20	95
Bloemen, Jan Frans van	4	102
Bloemen, Pieter van.....	4	102
Blom, Abraham.....	4	102
Bol, Ferdinand.....	4	179
Bosch, Hieronymus....	4	285
Bouts, Dierick.....	4	355
Bouts, Thierry.....	4	355
Brauwer, Adrian.....	4	421
Breugels family.....	4	627
Breughel family.....	4	627
Bril, Mattys.....	4	541
Bril, Paulus.....	4	541
Brouwer, Adriaan.....	20	95
Brouwer, Adrian.....	4	421
Bruegel family.....	4	627
Bruegel, Jan.....	4	627
Bruges, Roger de.....	27	668
Brugge, Jan van.....	10	675
Brugia, Ruggiero da....	27	668
Bruxelles, Roger de.....	27	668
Burg, Adriaan van der..	5	36
Calcar, Jan Stephanus..	5	158
Calvaert, Dionys.....	5	236
Campana, Pedro.....	5	274
Champagne, Philippe de	6	270
Champaigne, Philippe de	6	270
Cocxie, Michel.....	8	141
Coningh, Philips.....	16	518
Coningh, Salomon.....	16	518
Cornelis, Cornelius.....	7	709
Coxcie, Michel.....	8	141
Crabeth, Dirk.....	8	145
Crabeth, Wouter.....	8	145
Crayer, Gaspar.....	8	167
Crayer, Gaspar de.....	20	95

Biographies — cont'd	Vol.	Page
Cuyp, Albert.....	8	346
	20	95
	21	129
Cuyp, Benjamin Gerritsz	8	346
Cuyp, Jacob Gerritsz....	8	346
Daret, Jacques.....	11	344
David, Gerard.....	8	501
Davit, Gheerardt.....	8	501
De Haas, Maurice Frederick Hendrick.....	8	600
De Haas, William Frederick	8	600
Does, Jacob Van Der...	9	222
Diepenbeeck, Abraham van	9	96
Dow, Gerard.....	9	286
	20	95
Douw, Gerard.....	9	286
	20	95
Dujardin, Karel.....	9	390
Eeckhout, Gerbrand van den	9	712
Eckhout, Gerbrand van den	9	712
Egmont, Justus van.....	9	730
Engelbrechtzen, Cornelis	10	336
Everdingen, Aldart.....	10	596
Eyck, Hubert van.....	10	675
Eyck, Jan van.....	10	675
Feydt, John.....	12	212
Flémalle, Le Maitre de..	11	344
Flinck, Govaert.....	11	356
Floris, Francis.....	20	94
Fyt, John.....	12	212
Goltzius, Hendrick.....	13	40
Hals, Frans.....	13	650
Hobbema, Meindert.....	14	302
	29	95
Hooch, Pieter de.....	14	359
	22	77
Hoogh, Pieter de.....	14	359
	22	77
Hugo Van Der Goes....	14	481
	27	667
Huysum, Jan Van.....	14	533
	21	139
Israels, Joseph.....	15	424
	20	96
Janssens, Van Nuyssen, Abraham	15	617
	20	95
Jardin, Karel du.....	20	95
Jongkind, Johann Barthold	16	204
Jordaens, Jakob.....	20	95
Kalkar, Jan Stephanus.	5	158
Kempenur, Peter de.....	5	274
Kessel, Ferdinand van..	16	382
Kessel, Jan Van (the later)	16	382
Kessel, Jan Van (the elder)	16	382
Kessel, Jan Van (the younger)	16	382
Kessel, Jeroom Van....	16	382
Kessel, Theodorus Van.	16	382
Kobell, Jan.....	16	502
Koninck, Philips.....	16	518
Koninck, Salomon.....	16	518
Kuyp, Albert.....	8	346
Laar, Peter van.....	16	587
Laer, Peter van.....	16	587
Lairesse, Gerard de.....	16	654
Lastman, Pieter.....	16	761
Lely, Sir Peter.....	17	277
Maas, Nicolas.....	18	111
Mabuse, Jan.....	18	3
Maes, Nicolas.....	18	111
Maris, Jakob.....	18	293
Maris, Mathew.....	18	293
Maris, William.....	18	294

Biographies — cont'd	Vol.	Page
Massys, Quentin	18	439
	20	94
Matsys, Quentin	18	439
	20	94
Memlinc, Hans	18	612
Memling, Hans	18	612
	20	94
Mesdag, Hendrick Willem	18	685
Meulen, Adam Frans van der	18	735
Mieris, Frans van	19	46
	20	95
Milet, Frans	20	95
Momper, Josse de	20	95
More, Antoine	18	771
Mytens, Daniel	19	670
Neeffs, Pieter (the elder)	20	40
Neefs, Pieter	20	95
Neefs, Pieter (the elder)	20	40
Neer, Aart van der	20	40
Netscher, Caspar	20	96
Orley, Bernaert van	21	1
Os, Gregorius Jacobus Johannes van	21	15
Os, Jan van	21	15
Os, Pieter Gerardus van	21	15
Ostade, Adrian van	21	25
Ostade, Isaack van	21	25
Pasture, Roger de la	27	668
Pereyns, Simon	18	771
Poellenburg, Cornelis	20	95
Potter, Paul	20	95
	21	129
	22	452
Pourbus, Frans (the elder)	22	473
Pourbus, Frans (the younger)	22	473
Pourbus, Pieter (the elder)	22	473
Pourbus, Pieter (the younger)	22	473
Ravesteejn, Jan van	23	235
Rembrandt, Harmensz van Rijn	20	95
	23	363
Roelofs, Willem	23	626
Rombouts, Theodoor	20	95
Rubens, Peter Paul	20	95
	23	747
Ruisdael, Jacob van	23	763
Ruysdael, Jacob van	20	95
	21	129
	23	763
Schalcken, Godfried	24	363
Schalken (of Dort), Godfrey	20	95
Scheffer, Ary	24	364
Schoorl, Jan van	24	399
Schorel, Jan van	24	399
Schut, Cornelius	20	95
Scorel, Jan van	24	399
Seghers, Daniel	20	95
Seghers, Gerard	20	95
Seghers, Hercules	29	695
Slingeland, Jan Pieter	20	95
Slingelandt, Pieter Cornelisz van	25	98
Snayers, Peter	25	145
Snyders, Franz	20	95
	25	153
Steen, Jan Havickz	25	608
Steenwyck, Henrik van	25	608
Swanevelt, Hermann	26	110
Teniers, David (the elder)	20	95
	26	415
Teniers, David (the younger)	20	95
	26	415
Terburg, Gérard	26	440
Van der Helst, Bartholomæus	27	667
Van der Heyde, Jan	27	668
Van der Heyden, Jan	27	668
Van der Meer, Jan	20	95
	28	16
Van der Meulen, Adam François	27	668
Van der Meulen, Anton Francis	20	95
Van der Werf, Adriaan	20	95
Van der Weyden, Rogier	27	668
Van de Velde, Adrian	20	95
	27	666
Van de Velde, Willem	27	666
Vandyck, Anthony	18	771
	20	95
	27	669
Van Goyen, Jan Josephszoon	27	672
Van Hulst, Pieter	20	95
Van Huysum, Jakob	20	95
Vanloo, Charles André	27	685
Vanloo, Jacob	27	685
Vanloo, Jean Baptiste	27	685
Vanloo, Louis	27	685
Vanloo, Louis Michel	27	685
Van Uden, Luke	20	95
Van Veen, Otho	20	95
Veen, Otto van	27	718
Verboeckhoven, Eugen Joseph	28	12
Verkolje, Johannes	28	15
Vermeer, Johannes	28	16
Vos, Maarten de	28	187
Waterloo, Anton	20	95
Weenix, Jan	29	159
Weenix, Jan Baptist	29	159
Werff, Adriaan Van der	29	193
Weyden, Rogier van der	29	229
Wijnants, Jan	29	582
Wildens, Jan	20	95
Witte, Emanuel	29	433
Witte, Pietro de	29	433
Wouvermans, Philips	20	95
	29	564
Wynants, Jan	29	582
Zeeman, Remigius	29	694
Zegers, Hercules	29	695
JAPAN		
Asukabe Tsunenori	15	695
Chikuden	15	699
Chitaiga	15	699
Eri	15	695
Eshin	15	695
Fujiwara Takayoshi	15	696
Ganku	15	699
Ginankai	15	699
Hashimoto Gaho	15	699
Hiroshigé	15	699
Hokusai	15	699
Jakuchu	15	699
Kakuyu	15	696
Kano Hogai	15	699
Kano Yeitoku	15	698
Kawabata Gyokusho	15	699
Kishi Chikudo	15	699
Kono Bairei	15	699
Kose-no Kanaoka	15	695
Koyetsu	15	698
Matabei	15	698
Maruyama Okyo	15	699
Mitsunaga	15	696
Noguchi Yukoku	15	699
Sanraku	15	698
Shabuson	15	699
Shiba Kokan	15	699
Shibata Zeshin	15	699
Shiseki	15	699
Shoga	15	697
Shoko	15	699
Sosen	15	699
Sotatsu	15	698
Takanobu	15	696
Taki Kwatei	15	699
Takumino-kami Fujiwara Motomitsu	15	695
Tannyu	15	698
Utamaro, Kitagawa	27	619
Yusho	25	698
Zaichu	15	699
MEXICO		
Aquino, Andrés de	18	771
Arteaga, Sebastian de	18	773
Becerra, Diego de	18	774
Becerra, Nicolás	18	774
Cabrera, Miguel	18	774
Correa, Juan	18	774
Cosanova, Diego	18	774
Cruz, Juan de la	18	771
El Crespillo	18	771
Echave, Beltásar de	18	772
	18	773
Feuster, Alberto	18	776
"Friar Manuel"	18	774
Ibarra, José	18	774
Izaguirre, Leandro	18	776
Juárez, José	18	773
Juárez, Juan Rodríguez	18	774
Juárez, Luís	18	773
Juárez, Nicolás Rodríguez	18	774
Luna, Manuel	18	774
Martínez, Alfredo Ramos	18	776
Murillo, Gerardo	18	776
Orellano, Manuel	18	774
Parra, Félix	18	776
Plaza, Juan de la	18	774
Ponce de León, Rafael	18	776
Rios, Andrés	18	776
Rua, Juan de	18	771
Torres, José	18	774
Vázquez, Alonzo	18	771
Valazco, José María	18	776
Villalpando, Cristóbal	18	774
SPAIN		
Becerra, Gasparo	3	401
Berruguete, Alonzo	3	577
Cano, Alonzo	5	511
	22	427
Carreño De Miranda, Juan	5	664
Cespedes, Pablo de	6	231
Cifuentes, Rodrigo de	18	770
Concha, Andrés de	18	770
El Greco	25	345
Fortuny y Carbo, Mariano	11	523
Fortuny, Mariano	15	532
German y Llorente, Bernardo	12	502
Goya y Lucientes, Francisco José de	13	99
	19	171
Herrera, Francesco de	14	144
Herrera, Francisco	25	345
Lo Spagnoletto	25	345
Madrazo y Kunt, Federigo de	18	108
Madrozo, Raimundo de	18	108
Mena, Pedro de	25	348
Morales, Luis de	19	438
Murillo, Bartolomé Estéban	19	606
	22	427
	25	345
Navarrete, Juan Fernandez	20	6
Nuñez, Pedro de Villavicencio	20	499

Biographies — cont'd	Vol.	Page
Orrente, Pedro	21	10
Pacheco, Francisco	21	87
Pareja, Juan de	21	297
Picasso, Pablo	22	63
Ponz, Antonio	22	353
Pradilla, Francisco	22	500
Ribalta, Francisco de	23	481
	25	345
Ribera, José	15	530
	23	483
Ribera, Jusepe de	23	483
	25	345
Rico, Martin	23	509
Roelas, Juan de las	23	626
	25	345
Sorolla y Bastida, Joaquin	25	266
Spagnoletto	15	530
Theotocópuli, Domenico	25	345
Vargas, Luis de	27	687
Velázquez, Diego Rodriguez de Silva y	22	427
	25	345
	27	721
Zamacois, Eduardo	29	683
Zuloaga, Ignacio	29	737
Zurbaran, Francisco de	29	740
OTHER COUNTRIES		
Abildgaard, Nikolai Abraham	1	41
Agatharchus	1	233
Aherns, Carl	1	271
Aivazovskii, Ivan Konstantinovitch	1	292
Amman, Jobst	1	577
Antropov, Alexyei Petrovich	2	47
Apelles	2	54
Apollodorus	2	64
Argunov, Ivan P	2	231
Aristides of Thebes	2	236
Arthois, Jacques d'	2	351
Asam, Cosmas Damian	2	375
Bakst, Leon Nikolajewitsch	3	68
Basaiti, Marco	3	301
Bergh, Johann Eduard	3	546
Biefve, Eduard de	3	689
Bell-Smith, Frederic Marlett	3	479
Bihzâd	21	625
Blaas, Eugene von	4	29
Blaas, Karl von	4	30
Blaas, Julius von	4	29
Bloch, Karl Heinrich	4	91
Böcklin, Arnold	4	142
Brandt, Josef von	4	413
Brée, Matthæus Ignatius van	4	459
Brownell, Franklin	4	617
Brozik, Vaczlav	4	623
Brymner, William	4	650
Calame, Alexandre	5	155
Canon, Johann	5	513
Carstens, Asmus Jakob	5	676
Chelminski, Jan	6	377
Clays, Paul Jean	7	74
Coté, Aureole Suzor	8	56
Cydias	8	363
Dahl, Johann Christian Clausen	8	394
Danhauser, Joseph	8	451
Defregger, Franz von	8	594
De Vriendt, Frans	9	43
Drachmann, Holger Henrik Herholdt	9	291
Dubois, Louis	9	374
Edelfelt, Albert Gustav Aristid	9	579
Eisenmenger, August	10	41
Ender, Eduard	10	319
Ender, Johann	10	319
Ender, Thomas	10	319
Engerth, Eduard von	10	337
Fagerlin, Ferdinand Julius	10	710
Fahlcranz, Karl Johann	10	711
Fearnley, Thomas	11	75
Fedotov, Paul Andreievich	11	88
Fischer, Ludwig Hans	11	265
Fonseca, Antonio Manuel da	11	425
Forbes, John Colin	11	461
Forsberg, Nils	11	494
Franken, Frans (the third)	11	762
Francken, Frans (the younger)	11	762
Frölich, Lorentz	12	120
Führich, Joseph von	12	150
Gallait, Louis	12	241
Gauermann, Friedrich	12	339
Gay, Nicolay	12	346
Gebhardt, Eduard von	12	351
Gessner, Salomon	12	627
Grasset, Eugene	22	437
Grottger, Arthur von	13	491
Jefferys, Charles William	16	7
Jordaens, Jacob	16	207
Kane, Paul	16	291
Kauffman, Marie Angélique Catherine	16	318
Keleti, Gustav Friedrich	16	337
Khnopff, Fernand	16	393
Koninck, David de	16	518
Kronberg, Julius	16	544
Lange, Julius Henrik	16	718
Larsson, Carl Olaf	16	753
László de Lombos, Philip Alexius	16	761
Leempoels, Jef (Joseph)	17	229
Leys, Henri Jean Auguste	17	342
Liezen-Mayer, Alexander	17	408
McCrea, Hugh Raymond	18	32
Makart, Hans	18	156
Matthews, Marmaduke	18	444
Meunier, Constantin	18	735
Mikrâk	21	625
Morten-Müller	19	488
Muller-ury, Adolfo	19	559
Munkácsy, Michael	19	594
Nicias	20	321
Nordenberg, Bengt	20	397
O'Brien, Lucius Richard	20	545
Ooms, Karel	20	697
Pamphilus	21	222
Parrkasius	21	343
Passini, Ludwig	21	369
Pausias	25	649
Pauwells, Ferdinand	21	426
Payer, Julius von	21	432
Peterssen (Hjalmar), Eilif	21	671
Polygnotus	32	330
Portaels, Jean François	22	388
Protogenes	22	691
Rahl	23	134
Raphael, William	23	216
Reid, George Agnew	23	330
Ritter, Henry	23	544
Schmid, Matthias	24	382
Schoen, Aloys	24	384
Schwind, Moritz von	24	412
Siemiradzki, Henryk	24	793
Sinding, Otto Ludwig	25	33
Steinheil, Louis Charles Auguste	25	611
Stevens, Alfred	25	634
Tidemand, Adolph	26	611
Vautier, Benjamin	27	705
Verestchagin, Vasili	28	14
Verhas, Jan	28	15
Von Lanlos, Philip A	16	761
Waldmüller, F. G	28	223
Walker, Horatio	28	228
Wappers, Gustav	28	256
Wauters, Emile	29	115
Wiertz, Anton Joseph	29	297
Willems, Florent	29	328
Zorn, Andero Leonard	29	731
Zeuxis	29	706

For painting of the several countries, see under **Fine Arts—General.** See also **History; Paints; Societies and Organizations.**

PAINTS AND VARNISHES

General	Vol.	Page
Albertite	1	337
Arnotto	2	320
Asphalt	2	405
painting	2	406
Asphaltic coal	2	407
Bastard flatting	15	99
Bice	3	679
Bise	3	679
Bistre	4	23
Blooming	15	99
Brunswick black	4	638
Brush	4	640
Burut Sienna	5	63
Umber	5	63
Carmine	5	630
Carboleneum	5	588
Clearcole	15	99
Coal as a pigment	21	110
Coloring	7	327
Copal	7	645
Crawling	15	100
Cuttle-bone	8	344
Drier in oil paint	21	110
Egg-shell finish	15	101
Fat color	15	101
Flatting	15	101
Glazing varnish	27	691
Graining	13	112
Graphite	13	151
Indian red	15	32
Indian yellow	15	33
India ink	15	24
Kauri gum	16	322
Lake pigments	16	657
Lacquer	15	103
Lacquering	16	636
Lampblack	16	683
Linseed oil	15	462
	25	588
Mineral black	21	110
Mineral colors	19	156
Ochre, or ocher	20	569
Paint	21	107
driers	21	110
history of	21	107
Painting	21	111
Paints and varnishes	6	391
Paints, inert fillers or extenders	21	110
luminous	21	111
mixed	21	110
oil	25	587
statistics	21	110
structural	25	587

General — cont'd	Vol.	Page
vehicle	21	110
Permanent white	21	601
Pigments	21	107
	22	81
black	21	109
charcoal black	21	109
coal	21	110
graphite	13	151
	21	109
India ink	15	24
	21	109
ivory black	21	109
lamp black	16	683
	21	109
mineral black	21	110
blue	21	108
cobalt blue	21	109
coeruleum	21	109
cyanine	21	109
indigo	21	109
Prussian blue	21	109
smalt	21	109
ultramarine	21	108
artificial	21	109
brown	21	109
asphaltum	2	405
	21	109
bistre	4	23
	21	109
burnt sienna	5	63
	21	109
umber	5	63
	21	109
cappagh brown	21	109
Prussian brown	21	109
raw sienna	21	109
raw umber	21	109
sepia	21	109
Vandyke brown	21	109
green	21	108
cobalt green	21	108
emerald green	21	108
malachite green	21	108
Scheele's green	21	108
terre verte	21	108
verdigris	21	108
viridian	21	108
red	21	108
carmine	21	108
cochineal lakes	21	108
Indian lake	21	108
Indian red	15	32
	21	108
light red	21	108

General — cont'd	Vol.	Page
madder	21	108
mineral lake	21	108
para vermilion	21	108
red lead	21	108
red ochre	21	108
Venetian red	21	108
vermilion	21	108
white	21	107
baryta white	21	107
calcium carbonate	21	107
flake white	21	107
lead sulphate	21	107
lithopone	21	107
sulphopone	21	107
white lead	21	107
sublimed	21	107
zinc white	21	107
yellow	21	107
aureolin	21	107
burnt ochre	21	108
cadmium yellow	21	107
chrome yellow	21	108
gamboge	21	108
Indian yellow	15	32
	21	108
King's yellow	21	108
lemon yellow	21	107
Mars yellow	21	108
Naples yellow	21	108
vanadium yellow	21	108
yellow lake	21	108
yellow ochre	21	107
Pigments: Their nomenclature and composition	21	107
	22	81
Pitting	15	104
Priming	15	104
Tacky	15	105
Umber	27	267
Varnish	27	690
glue	27	691
manufacture	17	493
	27	690
tree	27	691
Varnishes, oil	27	690
spirit	27	691
water	27	691
Vehicle, paint	21	110
Water proofing	29	77
White lead	21	107
	29	271
Dutch process of manufacture	21	107

PAPER AND PAPER MAKING

General	Vol.	Page
Bundle	15	99
Canada, paper industry	5	446
Cap	15	99
Cardboard	5	599
	21	258
Casse-paper	15	99
Couch roll	15	100
Dandy-roll	15	100
Deckle-strap	15	100
Demy	8	674
	15	100
Double	15	101
Drawing-paper	15	101
Envelope	10	404
Fining-roller	15	101
Foolscap	15	102
Machine or tub-sizing	21	262
Maine, paper industry	18	145
Mexico, paper industry	18	752
Paper	6	407
	14	207
	18	752
	21	256
	29	75
art	21	258
Bible	21	258
classification	21	256
coated	21	262
converting pulp into	21	260

General — cont'd	Vol.	Page
copying	21	258
cutting	21	262
early	21	263
exports	21	265
featherweight	21	258
hand-made	21	263
history of	21	263
imitation art	21	258
industry, growth of	21	264
in America	21	266
linen	14	207
machine sizing	21	262
making	21	258
modern conditions in	21	265
soda process	21	259
materials	11	167
	21	257
news	21	257
Oxford India	21	258
pith	23	488
processes of manufacture	21	264
production	21	265
rice	23	488
sheet	24	677
sizes of	21	262
straw	21	267
test	26	453

General — cont'd	Vol.	Page
thick plate	21	258
tissue	21	258
tracing	26	739
tub sizing	21	262
wrapping	21	258
writing	21	258
Papier-maché	21	268
Papyrus	21	270
Egyptian	21	270
Parchment	21	294
Potsher	15	104
Pulp, bamboo	21	260
converting it into paper	21	260
straw	21	260
sulphate	21	259
sulphite	21	259
wood	21	258
	29	486
Rags	21	260
	23	134
Sheet paper	24	677
Vellum	27	723
Water mark	29	23
Water proofing	29	75
Wood-pulp	21	258
	29	486
ground	21	256

PHILOSOPHY

General		
Abduction	1	30
Abode of souls	14	717
Absolute	1	53
	1	54
	14	67
	15	121
Absolute experience	22	259
Absolute, theory of the	14	68
Absorption	1	55
	14	117
Abstraction	1	55
Academics	1	61
Academy	1	62
Accident	1	70
inevitable	1	105
Accidentalism	1	71
Act	1	105
Active intellect	2	115
Activity of God	2	241

General — cont'd		
Actuality, law of	1	112
Advaita	1	161
Æsthetics	1	198
	2	336
	3	350
transcendental	16	304
as the philosophy of the beautiful	21	775
Agnosticism	1	238
Agreement	1	241
	2	228
Alexandrists	1	374
Allegory	1	411
Altruism	1	452
	26	169
Aluminados	14	698
Analogy	1	606
	2	229
Anima Mundi	1	696

General — cont'd		
Animism	1	714
	23	345
Anthropogenesis, theosophical	26	520
Anthropomorphism	2	24
	22	337
Apodictic judgments	2	63
Apperception	2	82
	14	116
A priori	2	102
Aquinas, Saint Thomas, philosophy of	2	114
Archetype idea	22	235
Argument	2	227
cosmological	26	505
cyclical	22	235
from example	2	228
ontological	20	696
	26	505

General — cont'd	Vol.	Page
teleological	26	505
Argumentation	2	227
Aristotelianism	2	240
Aristotelians	2	115
Aristotelian world	2	241
Aristotle, classification of the sciences	24	413
Art	2	242
Association	14	117
of ideas	2	425
Atheism	2	492
Atomistic thesis	14	68
Atomists	21	778
Attention	2	521
	14	117
Attribute	2	527
Augustinianism	2	545
Augustinians	2	115
Automatism	2	642
Automatism, human	4	147
Automorphism	2	668
Averroists	1	374
Bacon's classification of the sciences	24	413
Begging the question	3	444
Behavior and behaviorism	3	446
Bergsonism	3	548
Bias	3	611
Block world	22	259
Body and mind	4	146
Brahmanism	19	666
Cambridge Platonists	5	254
Candide or Optimism	5	495
Cardinal virtues	5	602
Cartesianism	5	680
Categories	8	213
	14	67
Category	6	49
Casualty	13	741
Causal relation	4	147
Causation, facts of	2	228
Cause	6	131
first	2	241
	6	131
to effect	2	229
Chance	6	276
Character	6	301
Chemotropism	6	409
Chivalry	6	572
Circle	6	692
Civilization, pre-Christian, history of	7	21
Civilization, principle of	22	237
Classification of the sciences, principles of	24	413
Clearness	14	117
Clifford's theory	21	248
Common sense	7	415
Comtean positivism	7	455
	22	422
Concept	7	459
	17	600
Socratic	22	235
Conception, Socratic-Platonic	22	236
Conceptions, religious	22	388
Conceptual constructions	14	67
Conceptualism	7	460
Conceptualist	7	460
Concomitant variations	2	228
Concord school of philosophy	13	725
Concretion	7	475
Conditioned, philosophy of the, or philosophy of the unconditioned	7	480
Conduct	25	393
Confucianism	7	497
	15	665
Confusion	7	499

General — cont'd	Vol.	Page
Consciousness	7	537
See also **Psychology.**		
Consciousness, uniformity of	17	602
Constancy of nature	22	36
Content	14	662
Contradiction, law of	14	664
principle of	14	115
Contrivum	22	45
Conversion	7	611
Corollary	7	717
Cosmos	14	66
Cosmogenesis, theosophical	26	519
Cosmology, Pythagorean	23	48
Cult, Pythagorean	23	48
Cynics	8	365
	13	412
Cyrenaics	8	371
Cyrenaicism	14	64
Cyrenaic school	13	412
Cyrenians	8	371
Darwinian theories	8	486
	10	610
Death	8	539
	14	718
Deduction	8	574
	23	263
Deductive inference	17	601
Deipnosophist	8	602
Deism	5	81
	8	602
Deists, English	14	229
Demiurge	8	639
Demonstration	8	672
Determining tendency	9	24
Determinism	9	25
ethical	9	26
historical	9	26
metaphysical	9	25
psychological	9	26
theological	9	26
Deus ex machina	9	33
Dialectic	9	58
Dialectical method	14	67
Dialectical procedure	14	67
Dialectic movement of thought	14	68
Dichotomy	9	78
Difference	2	228
Dilemma	9	119
Discourses and Handbook of Epictetus	9	155
Disinterested affection	17	266
Disproof	2	228
Dissolution	25	392
Disuse	9	195
Division	9	205
Dualism	4	147
	9	367
	29	732
Duty	9	440
Dynamic energy	15	292
Earth	2	241
	9	488
Eclecticism	9	546
Ecstasy	9	570
Educative instruction	14	117
Effect to cause	2	229
Ego	11	173
	14	66
	14	718
Egoism	9	731
Eleaticism	10	60
	22	235
Eleatics, school of	10	60
	13	411
Elements, conscious	10	220
Emotion	10	298
Empiricism	10	301
	14	67
	21	780

General — cont'd	Vol.	Page
Energism	10	333
Energy	2	241
	10	327
Entelechy	10	399
Enthymeme	10	400
Epicureanism	10	417
	14	64
	25	269
Epiphenomenon	4	147
Epistemology	10	430
	18	707
	21	773
Equity	14	116
Eschatology	10	490
Esoteric	10	501
Essence	10	513
Ethical movement and ethical societies in America and abroad	10	537
Ethics	2	242
	10	540
	13	742
	14	116
	17	129
and belief in God	26	506
as the philosophy of conduct	21	774
Platonic	22	236
Eudæmonism	10	563
	22	237
Evidence, circumstantial	2	230
Evil, origin of	10	605
Evolution	25	391
history of	10	605
simple	25	392
theories of	10	608
Example	2	228
Excluded middle, law of	14	664
Experience	14	65
Expulsion	10	665
Faith	10	723
	14	66
	14	67
confesssion of	22	527
Fallacy	10	733
Fatalism	11	54
Force, resistance of	25	391
Form	2	241
	11	489
Fortuitism	11	522
Free will	12	46
Freudianism	12	94
Functionalism	12	160
Future life	12	204
	14	717
	14	718
German science and philosophy	12	538
Gnostics	12	738
	25	269
God	12	743
	25	417
city of	17	265
Gods in the polytheons of the Anthropomorphic Age	22	388
Good will	14	116
Guerists	14	698
Gymnosophists	13	591
Happiness	22	237
Harmony, pre-established	4	147
	17	263
	22	528
Hedonism	14	63
	22	237
Hegelian school	11	171
	11	264
Hegel's philosophical system	14	65
	24	414
Hellenes	22	21
Henism	15	291

General — cont'd	Vol.	Page
Heterogenesis, theories of	10	612
	18	696
Highest good	25	667
Hindu philosophy, development of	14	195
History; its rise and development	14	252
History, logic of	14	295
Homes, making of	23	108
Homogeneity of race	23	109
Humanism	14	487
Humanity, conscience of	13	490
Hylozoism	15	291
Hypothesis	14	608
	22	36
Idea	14	116
	14	661
definition of an	22	338
generic	22	235
Platonic	22	235
supreme	22	235
Idealism	14	663
	23	256
essence of	14	663
ethical	21	780
evolutionary	21	780
objective	14	664
subjective	14	664
Idealist	3	554
Ideality, transcendental	8	213
Ideas	14	491
doctrine of	22	235
innate	15	141
Identity, law of	14	664
metaphysical relations of the logical law of	14	665
personal	25	269
Illuminati	14	698
Imagination	14	663
Immortality	14	716
	14	718
	25	269
doctrine of	15	293
of the soul, Platonic arguments for the	14	718
Incarnation	14	735
modern views of	14	738
progressive	14	738
Indifferentism	15	66
Individual atom	23	48
Individualism	15	68
Individuality	15	68
Induction	15	70
	17	601
	23	263
Inductive hazard	17	602
Inductive leap	17	602
Inductive process	17	602
Inference	15	120
	17	600
	23	263
Infinity	15	120
Inner freedom	14	116
Instinct	15	168
Instrumentalism	15	175
Integralism	1	675
Intellect	15	204
Intellectualism	15	204
Intelligence	14	65
	15	204
creative	15	293
supreme regulative	15	293
Intuition	3	548
	15	273
Intuitionism	15	273
	27	621
Ionian school	15	293
Irony	15	390
Isolation	15	416

General — cont'd	Vol.	Page
Isolation theories	10	611
Jewish philosophical writers	16	76
Jewish philosophy	16	84
Joint method	2	228
Judgment	17	600
critique of	16	305
seat of	22	21
Justice	14	116
	16	263
law of absolute	22	237
Kaliyuga	16	284
Kant, antinomies of	15	121
Kant, philosophy of	16	303
Kantian "Thing-in-itself"	15	291
Karma	16	310
	26	520
Knowledge	14	67
	14	491
	25	391
Law	17	129
Leviathan	17	329
Lie	17	404
Life	2	241
	17	408
	26	390
maintenance of, by opposition	14	718
principle of	14	718
psychical	14	116
Logic	2	240
	14	67
	17	599
symbolic	17	604
Logos	14	661
	16	76
	17	610
Man	14	68
	14	719
	23	108
Christian anthropology	18	181
Materialism	4	147
	14	664
	18	425
Matter	2	241
	17	265
	18	440
Maya principle	27	712
Mechanism	18	526
as a method of explanation	18	526
as a theory of the world	18	526
and Vitalism	18	527
Mechanist	15	292
Meliorism	18	605
	21	654
	22	634
Mendelism	10	613
	18	622
Mental faculties, classification	24	413
Mental learning	15	680
Metaphysics	2	240
	18	707
of common sense	18	707
of natural science	18	708
of the technical philosopher	18	708
Platonic	22	234
Pythagorean	23	48
Metempsychosis	18	712
	27	6
Method	14	117
Microcosm and Macrocosm	19	32
Mîmânsâ	19	143
Mind	14	491
	22	737

General — cont'd	Vol.	Page
dust	4	147
Monism	4	147
	19	356
	22	259
Monotheism	19	369
	22	339
	23	344
Moral perfection	14	719
Moral purification	14	718
Moralia, Plutarch's	22	260
Motazilites	2	123
Motion	2	241
	19	513
Multiplicity, infinite	15	293
Mutations, theories of	10	612
Mysticism	19	665
Neo-Platonic	19	667
Oriental	19	666
rationalistic	19	666
Nativism	19	766
Naturalism	19	771
	22	308
Nature, uniformity of	17	602
Nebular hypothesis	20	35
hypothesis of Laplace	17	603
Necessarianism	20	35
Necessitarianism	20	35
Neo-Hegelianism	20	71
Neo-Kantianism	20	71
Neo-Lamarckism	20	71
Neo-Platonism	20	71
	21	248
Neo-Platonists	25	269
Neo-Pythagoreanism	20	72
New academy	13	412
New Platonists	13	412
New-thought	20	185
Nietzschean doctrine of might and right	20	325
	22	237
Nirvana	20	369
Nominalism	20	393
	21	779
	24	386
	27	572
Non-ego	11	173
Norm	20	403
Noûmenon	8	213
	20	461
Novum organum	20	479
Number	23	48
Obversion	20	554
Occasionalism	4	147
	25	270
Occultism	20	557
	26	521
Ontology	20	696
	21	774
	22	422
Ontology, Platonic	22	234
Opinion, history of	21	768
Opposition	20	716
Optimism	20	719
Organization, principle of	22	237
Orthogenesis, theories of	10	612
Pain, sympathetic	26	168
Panpsychism	4	147
	21	247
Pantheism	21	249
Pantheistic conception	14	738
Parallelism	4	147
	21	283
Patañjali	21	379
Pejorism	21	654
Perceptions	14	491
	21	569
Peripatetic school	2	495
	21	596
Persian sufi	19	666

General — cont'd	Vol.	Page
Pessimism	13	742
	21	654
	21	781
Schopenhauer's	24	401
Phenomena	14	66
Philosopher, laughing	17	102
savage	22	337
weeping	17	102
Philosophers, Arabic	24	387
Philosophy	21	768
analysis of the factors of	21	769
ancient	21	778
Arabian	2	123
	24	387
Baconian	3	26
benefits of	21	775
Christian	2	115
corpuscular	8	18
definition of	21	768
divisions of	21	773
Doctor of	9	217
enlightenment of	10	390
goal of	24	271
Greek	13	406
	13	411
	21	778
highest period of primitive	22	337
history of	21	777
Ionian	15	121
	15	291
Ionian school of	13	411
main branches of	21	773
mediæval	21	779
Megarion School of	18	594
of mind	21	774
of nature	21	774
of the absolute	21	775
of the 6th century	25	61
of unconscious	13	742
Oriental	21	778
Oyomei	21	80
peripatetic	21	596
Platonic	11	174
relation of theology to	26	513
relations of, to the particular sciences	21	771
Rosmini's	23	702
Scottish school of	24	447
synthesis of the factors	21	770
transcendental	27	4
and psychology	21	772
Phrenology	22	20
faculties identified	22	21
Physical law	22	36
Physics	2	241
	22	36
Platonic	22	235
See also **Physics.**		
Physiology, its relations with other departments of science	22	46
Piety	22	246
Plastic bodies	25	392
Platonism	14	661
	22	234
Plato's Republic	22	236
Pleasure	22	237
	25	667
Pluralism	22	259
Polytheism	22	336
	22	338
	23	344
Pons asinorum	22	349
Positivism	21	781
	22	308
	22	421
	23	257

General — cont'd	Vol.	Page
genuine	22	422
Potentiality	2	241
Pragmatism	22	503
element in	22	503
Pre-Darwinian speculations	5	57
Predestination	22	527
	22	737
Predestination, view of	22	527
idea, exponents of the true	22	527
Predicables	22	528
Pre-existence	22	517
Prime mover	2	241
Principle	2	227
Principles	2	228
Probabilism	6	23
Probabilists	22	619
Progress	22	634
Proof	2	227
Proposition	22	668
Psychology	2	241
	22	737
Platonic	22	235
Stoic	25	269
See also **Psychology.**		
Pure reason, antinomies	16	305
critique of	8	212
	16	304
Purva-mimânsâ	19	143
Pythagoreanism	23	48
Quality	23	56
Rationalism	21	780
	23	225
chief representatives of	23	226
in general	23	225
in theology	23	225
origin of	23	226
spirit of	23	226
Realism	14	663
	21	779
	23	254
	23	256
	24	386
	27	572
and naturalism in literature	23	256
and naturalism in Russian literature	23	258
in France	23	257
in modern philosophy	23	255
natural	23	255
new	23	255
transcendental	13	741
transfigured	23	255
Reality	15	121
theory of	21	774
Reals	14	116
Reason	2	227
	2	242
	14	66
	23	263
function of	22	236
supreme	15	292
world of	14	66
Reasoning	23	263
differentia of	23	263
law of sufficient	17	263
Reflection	14	117
Refutation	2	228
Religion. See **Religion.**		
Religion in a polytheist	22	337
Religion, theories of the origin of	23	344
Religious thought, evolution of	23	644
Reminiscence, doctrine of	22	235
Residues	2	228
Resignation	25	668

General — cont'd	Vol.	Page
Revelation, knowability of	23	343
possibility of	23	342
Romantic movement	23	656
Sachchidânanda	27	712
Sankhya	24	270
Scepticism	24	359
Scholasticism	21	779
	24	386
Scholastics, earliest	24	386
School of Epicurus	21	778
Science	16	82
Doctor of	9	217
Sciences, classification of	24	413
natural	24	416
normative	24	416
practical	24	414
	24	415
theoretical	24	413
	24	415
Scotism	24	429
Secularism	24	521
Self	14	66
Sensationalism	24	567
Seven Sages of Greece	24	610
Seven Wise Men	24	610
Seven Wise Men of Greece	7	88
	13	411
Sign	2	230
Sixth sense	14	302
Skin	22	50
Socialism, theory of	25	193
Society	25	390
Sophiology	25	260
obvious task in	22	336
Sophists	13	412
	21	778
	25	260
Sorites	25	266
Soul	2	241
	14	718
	25	268
transmigration of	27	6
Space	2	241
	25	320
Spencerian "Unknowable"	15	291
	25	390
Spencer's system	24	414
	25	390
Spirit	14	68
	25	421
Spiritualism	4	147
Stoicism	21	248
	25	667
Stoics	13	412
	21	249
	21	778
	25	667
Sublime	25	761
Substance	25	775
Sufis	2	123
Sufism	25	793
Syllogism	17	601
	26	158
categorical	17	602
Sympathy	26	168
Synthesis	26	176
System	14	117
Teleology	26	361
Temperance, specific virtues of	22	237
Testimony	2	229
Theodicy	26	500
Theology. See under **Religion — Theology.**		
Theologies, representative	26	515
Theories, Kenotic	14	738
Lamarckian	10	609

General — cont'd	Vol.	Page
Neo-Darwinian	10	611
Neo-Lamarckian	10	610
Theorist, dynamical	15	292
Theory, mind-stuff	21	248
mutation	9	196
	19	656
of knowing and being	11	140
of knowledge	21	773
mechanical	18	526
physical	22	36
Royceian	15	122
Theosophy	26	517
Thesis	2	227
Things in Themselves	14	66
	25	776
Things, principles of	15	294
Thomism	26	575
Thomistic school	2	115
Thomists	1	374
Thought	26	591
Thought, negativity of	14	68
world of	14	67
Time	2	241
	26	630
Topic	26	701
Transcendentalism, New England	27	4
Transmigration	14	717
doctrine of	14	718
	27	6
Tübingen school	27	127
Tychism	1	71
Unconscious	18	741
Unconsciousness	27	271
Understanding	14	66
	14	67
	23	263
Unity	14	67
Universal	17	600
postulate	25	391
principle	23	263
Universalism	27	569
Universals	27	572
Universe	2	241
	27	573
Unknowable	25	391
Utilitarianism	27	620
Utilitarians	14	64
Uttara-mimâmsâ	19	143
Vaiseshika system	27	641
Vedanta	27	712
Vegetarianism	27	719
Verification, process of	17	603
Vice	14	718
	28	58
Virtue	2	242
	25	667
Vitalism	22	44
Will	29	323
efficiency of	14	116
freedom of the	12	49
	29	323
strength of	25	668
World-reason	14	661
Yang and Yin	29	613
Yoga system	29	638
Zootheism	22	337
Zoroastrianism	29	732
code of ethics of	29	733

Biographies

UNITED STATES

Biographies — cont'd	Vol.	Page
Alcott, Amos Bronson	1	350
Andrews, Stephen Pearl	1	675
Bascom, John	3	301
Benedict, Wayland Richardson	3	506
Bjerregaard, Carl Henrik Andreas	4	28
Bledsoe, Albert Taylor	4	74
Bode, Boyd Henry	4	143
Bowne, Borden Parker	4	366
Caldwell, William	5	189
Carus, Paul	5	688
Channing, W. E.	6	290
	27	4
Colt, Stanton	7	225
Creighton, James Edwin	8	176
Curtis, Mattoon Monroe	8	317
Davenport, C. B.	8	496
	10	613
Davis, Noah Knowles	8	512
Dewey, John	9	47
	22	503
Dresser, Horatio Willis	9	331
Edwards, Jonathan	9	708
Emerson, Ralph Waldo	10	286
	27	4
Evans, W. F.	20	185
Fiske, John	11	296
Foster, John	11	528
Fowler, Orson Squire	11	562
Franklin, Benjamin	12	8
Fullerton, George Stuart	12	156
Green, Edmund Fiske	11	296
Hamilton, Edward John	13	657
Harris, William Torrey	13	725
Hazard, Rowland Gibson	14	23
Hibben, John Grier	14	164
Hickok, Laurens Perseus	14	168
Howison, George Holmes	14	460
James, William	15	606
	22	503
	25	271
Knox, George William	16	495
Lord, Herbert Gardiner	17	656
Lovejoy, Arthur Oncken	17	694
McCosh, James	18	29
McGilvary, Evander Bradley	18	49
Mezes, Sidney Edward	19	5
Mitchell, Samuel Latham	19	269
Moore, Addison Webster	19	428
Mulford, Elisha	19	554
Olcott, Henry Steel	20	643
Ormond, Alexander Thomas	21	1
Peirce, Charles S.	21	474
	22	503
Perry, Ralph Barton	21	607
Quimby, Phineas P.	20	185
	23	90
Riley (Isaac), Woodbridge	23	523
Royce, Josiah	15	121
	23	737
Salter, William Mackintire	24	206
Shaftesbury, Anthony Ashley Cooper	24	639
Stallo, John Bernard	25	473
Thilly, Frank	26	553
Wakeman, Thaddeus Burr	28	218
Wilson, William Dexter	29	363

GREAT BRITAIN

Biographies — cont'd	Vol.	Page
Abercromby, David	1	37
Adelard	1	134
Aethelhard	1	134
Alexander of Hales	1	367
Alexander, Samuel	1	367
Anderson, John	1	659
Bacon, Francis	3	19
	14	228
	18	526
	21	769
	24	614
Bacon, Roger	3	25
Bailey, Samuel	3	51
Baynes, Thomas Spencer	3	366
Berkeley, George	3	553
	9	618
	18	709
	25	270
	25	776
Bosanquet, Bernard	1	201
	4	285
	15	121
Bradley, Francis Herbert	4	388
	15	121
Brown, Thomas	4	612
Buchanan, George	4	657
Burke, Edmund	1	200
	5	45
Burnet, Thomas	5	56
Burnett, James	5	57
Butler, Joseph	5	79
Caird, Edward	5	148
	20	71
Calderwood, Henry	5	188
Case, Thomas	5	697
Collier, Arthur	7	265
Coupland, William Chatterton	8	112
Crozier, John Beattie	8	253
Cudworth, Ralph	8	292
	15	141
Darwin, Charles	8	485
	10	610
	19	638
Davis, John	15	141
Digby, Kenelm Henry	9	108
Elliot, Gilbert	10	254
Elyot, Thomas	10	269
Ferrier, James Frederick	11	140
Fludd, Robert	11	401
Fowler, Thomas	11	562
Fraser, Alexander Campbell	12	21
Galton, Francis	12	252
Godwin, William	12	749
Green, Thomas Hill	13	423
	20	71
Gurney, Edmund	13	576
Hamilton, William	7	480
	13	659
Harrison, Frederic	13	729
	22	422
Herbert, Edward	14	118
Hobbes, Thomas	5	80
	14	302
	15	142
Hodgson, Shadworth Hollway	14	308
Holyoake, George Jacob	14	331
	24	521
Home (Lord Kaimes)	1	199
Hume, David	14	491
	14	661
	18	709
	21	780
	25	270
	25	776
Hutcheson, Francis	14	528
Hutchinson, John	14	529
Huxley, Thomas	13	411
	14	532
Jacks, Lawrence Pearsall	15	573
Knight, William Angus	16	483
Lecky, William Edward Hartpole	14	254
	17	210
Lewis, George Henry	17	332
Locke, John	6	131
	14	661
	17	561
	18	708
	21	769
	25	270

Biographies — cont'd	Vol.	Page
Mackenzie, John Stuart.	18	68
Mansel, Henry Longueville	18	234
Martineau, James	18	340
Mill, James	19	110
Mill, John Stuart	6	131
	7	481
	19	110
	22	237
Molyneux, William	19	332
Morell, John Daniel	19	446
Morley, John	14	254
	19	461
Paley, William	21	203
Reid, Thomas	23	331
	24	447
	25	643
Russell, Bertrand (Arthur William)	23	783
	25	271
Schiller, Ferdinand Canning-Scott	24	369
Scotus, Joannes Duns	2	115
	24	429
	24	447
Scotus-Erigena, Johannes	24	448
Smith, Adam	25	111
Spencer, Herbert	1	200
	13	411
	19	638
	21	770
	21	781
	25	390
Stewart, Dugald	25	643
Stirling, James Hutchinson	25	653
Sully, James	25	809
Taylor, Thomas	26	301
Tucker, Abraham	27	128
Watson, John	29	109
FRANCE		
Abauzit, Firmin	1	8
Abelard, Pierre	1	35
	23	226
Alembert, Jean le Rond d'	1	358
Aveling, Francis Arthur Powell	2	672
Azais, Pierre Hyacinthe	2	687
Ballanche, Pierre Simon	3	97
Balzac, Honoré de	3	124
	23	257
Barni, Jules Romain	3	268
Barthé - Saint - Hilaire, Jules	3	289
Bautain, Louis Eugene Marie	3	352
Bergson, Henri	1	201
	3	547
	25	270
Bernhard de Chartres	3	570
Bernier, Francois	3	574
Bonald, Louis Gabriel Ambroise	4	203
Bouillier, Francisque	4	325
Boutroux, Etienne Emile Marie	4	355
Buchez, Philippe Joseph Benjamin	4	663
Buridan, Jean	5	44
Caro, Elme Marie	5	645
Champeaux, Guillaume de	1	35
	6	271
Comte, Isidore Auguste Marie Françoise Xavier	7	475
	22	421
Condillac, Etienne Bonnet de Mayblde	7	479
Condorcet, Marie Jean Antoine Nicolas de Caritat, Marquis	7	482
	14	231
Cousin, Victor	8	127
De Gérando, Joseph Marie, Baron	8	597
Descartes, René	3	583
	8	718
	14	228
	15	141
	18	526
	18	708
	21	769
	25	775
Destutt De Tracy, Antoine Louis Claude	9	16
Droz, François Xavier Joseph	9	342
Flaubert, Gustave	11	336
	23	2 7
Fouille, Alfred Jules Emile	11	532
Franck, Adolphe	11	761
Funck-Brentano, Théophile	12	159
Gassendi (properly Gassend), Pierre	12	332
Guyau, Jean Marie	13	583
Havet, Ernest Auguste Eugène	13	767
Janet, Paul	15	612
Joly, Henri	16	193
Lamarck, Jean Baptiste Pierre Antoine de Monet	10	609
	16	666
Lamennais, Hugues Felicité Robert de	16	675
Lamy, Bernard	16	684
La Rochefoucauld, François	16	580
Laromiguière, Pierre	16	751
Littré, Maximilien Paul Emile	17	525
Loisy, Alfred Firman	17	613
Maine De Biran, François Pierre Gonthier	18	142
Maistre, Joseph Marie	18	152
Malebranche, Nicholas	18	164
Maupertius, Pierre Louis Moreau de	18	449
Milhaud, Gaston	19	58
Montesquieu, Charles Louis de Secondat	19	403
Pascal, Blaise	21	362
	24	615
Ramée, Pierre	23	201
Renouvier, Charles Bernard	23	379
Rousseau, Jean-Jacques	23	723
Royer-Collard, Pierre-Paul	23	738
Saint-Lambert, Jean François	24	139
Saint Martin, Louis Claude	24	153
Sénacour, Etienne Pivert de	24	557
Simon, Jules (Jules François Simon Suisse)	25	24
Tarde, Gabriel	26	267
Vauvenargues, Luc de Clapier	27	705
Voltaire, Jean François Marie Arouet	11	130
	15	141
	28	176
Zola, Émile	23	257
	29	721
GERMANY		
Albertus Magnus	1	337
	21	779
	22	21
Althusius, Johannes	1	451
Avenarius, Richard	2	673
Bardili, Christoph Gottfried	3	245
Baumgarten, Alexander Gottlieb	3	350
Bayrhoffer, Karl Theodor	3	368
Beckers, Hubert	3	406
Bendavid, Lazarus	3	502
Beneke, Friedrich Eduard	3	509
Bergmann, Julius	3	547
Biedermann, Friedrich Karl	3	689
Biel, Gabriel	3	689
Bilfinger, Georg Bernhard	3	701
Bouterwek, Friedrich	4	354
Brandis, Christian August	4	412
Brentano, Franz	4	467
Brucker, Johann Jakob	4	627
Büchner, Friedrich Karl Christian Ludwig	4	663
Bunsen, Christian Karl Josias	5	25
Busenbaum, Hermann	5	72
Carriére, Moritz	5	671
Cohen, Hermann	7	215
Daumer, Georg Friedrich	8	494
Dilthey, Wilhelm	9	122
	14	254
Drews, Arthur	9	333
Dühring, Eugen Karl	9	389
	22	421
Eberhard, Johann August	9	519
Eckart, Johannes	9	545
	19	666
Emmeran, Eusebius	8	494
Eobanus, Helius or Hessus	10	407
Erdmann, Johann Eduard	10	471
Eschenmayer, Adam Karl August von	10	494
Eucken, Rudolf Christoph	10	562
Fechner, Gustav Theodor	11	77
	25	270
Fuerbach, Ludwig Andreas	11	161
Fichte, Immanuel Hermann von	11	171
Fichte, Johann Gottlieb	11	171
Fischer, Ernst K. B.	11	264
Flügel, Otto	11	402
Freudenthal, Jacob	12	94
Fries, Jakob Friedrich	12	109
Frohschammer, Jakob	12	119
Hartmann, Karl Robert Edouard von	13	741
	21	770
Hegel, Georg Wilhelm Friedrich	14	65
	14	115
	14	233
	18	710
	21	770
	21	777
	25	270
	25	776
Herbert, Johann Friedrich	1	200
	14	115
	25	270

Biographies — cont'd	Vol.	Page
Holbach, Paul H. D.	14	313
Jacobi, Friedrich Heinrich	15	789
Kant, Immanuel	1	200
	6	131
	11	172
	14	662
	14	719
	16	303
	18	527
	21	769
	25	270
	25	776
Kirchmann, Julius von	16	455
Köstlin, Karl Reinhold	16	533
Krause, Karl Christian Friedrich	16	539
Krug, Wilhelm Traugott	16	546
Külpe, Oswald	16	753
Laas, Ernst	16	587
Lambert, Johann Heinrich	16	672
Lasson, Adolf	16	759
Lazarus, Moritz	17	160
Leibnitz, Gottfried Wilhelm von	1	199
	6	131
	17	261
	17	561
	18	708
	21	250
	25	270
Lotze, Rudolph Hermann	17	558
	17	671
	18	527
Maimon, Salomon	18	140
Mehring, Franz	18	595
Mendelssohn, Moses	18	623
Michaelis, Johann David	19	13
Michelet, Karl Ludwig	19	17
Miraband, M.	14	313
Müller, Friedrich Max	19	556
Nietzsche, Friedrich Wilhelm	20	335
	27	225
Noiré, Ludwig	20	391
Otho of Freising	21	42
Paulsen, Friedrich	21	422
Reinhold, Karl Leonard	23	334
Reuchlin, Johann	23	437
Ritschl, Albrecht	23	542
Ritter, Heinrich	23	543
Schelling, Friedrich Wilhelm Joseph von	14	233
	24	365
Schlegel, Karl Wilhelm Friedrich von	14	233
	24	376
Schleiermacher, Friedrich Ernst Daniel	24	378
Schmidt, Johann Kasper	24	382
Schopenhauer, Arthur	1	209
	21	654
	21	770
	24	400
	25	270
Spurzheim, Johann Friedrich Kaspar	25	461
Steinthal, Heymann	25	612
Stirner, Max	25	654
Tiedemann, Diedrich	26	618
Treitschke, Heinrich von	27	37
	27	225
Trendelenburg, Friedrich Adolf	27	42
Ueberweg, Friedrich	27	251
Ulrici, Hermann	27	264
Weigel, Valentine	19	667
Windelband, Wilhelm	14	254
	21	777
Wolff, Christian	29	441
Wundt, Wilhelm (Max)	29	576
Zeising, Adolf	29	696
Zeller, Eduard	29	697
Zerboni Di Sposetti, Joseph	29	703
Ziegler, Theobald	29	708

ITALY

Biographies — cont'd	Vol.	Page
Angiulli, Andrea	15	493
Aquinas, Thomas	2	113
	21	779
Bassi, Laura Maria Caterina	3	318
Beccaria, Giovanni Battista	3	401
Bruno, Giordano	4	635
Campanella, Tommaso	5	274
Cantoni, Carlo	5	537
Conti, Augusto	7	585
Croce B.	1	291
Ferrari, Giuseppe	11	137
Ficino, Marsilio	11	174
Ficinus	20	72
Filelfo, Francesco	11	206
Genovesi, Antonio	12	400
Gioberti, Vincenzo	15	491
Latini, Brunetto	17	95
Mazzini, Giuseppe	18	472
Nifo, Agostine	20	337
Papini, Giovanni	21	269
Pico Della Mirandola, Giovanni	20	72
	22	69
Pomponatius, Petrus	22	346
Rayneri, Giambattista Antonio	15	491
Romagnosi, Giovanni Domenico	15	491
	23	639
Rosmini, Antonio Rosmini-Serbati	23	702
Serbati, Antonio Rosmini	15	491
	23	702
Vico, Giambattista	14	231
	28	65

OTHER COUNTRIES

Biographies — cont'd	Vol.	Page
Abba Arika	1	9
Abba Mari	1	9
Aben Esra	1	36
Abhedananda, Swâmi	1	40
Abu 'Ali al-Husain Ibn Abdallah Ibn Sina	2	678
Abu Ali ibn Abdallah Ibn Sina	2	123
Abu al-Walid Mohammed Ibn Roshd	2	124
Abu Bekr Mohammed ben Abd al-Malik Ibn Tofail	2	124
Abu Bekr Mohammed ben Jahya Ibn Badja	2	124
Abu Hamed Mohammed-al-Ghazali	2	123
Abu Jusuf Ja' Kub ben Ishak al-Kendi	2	123
Abu'l Ala, Al Ma'arri	1	56
Abu Nasr Mohammed al-Farabi	2	123
Acosta, Gabriel	1	97
Aenesidemus	1	177
Æschines	1	196
Albo, Joseph	1	339
	16	80
Alexander of Aphrodisias	1	367
Alfarabi	1	377
Algazzali, Abu Hamed Mohammed	1	381
Alghazzâli, Abu Hamed Mohammed	1	381
Ammonius Saccas	1	580
Anacharsis	1	601
Anaxagoras	1	651
	13	411
	15	291
	21	778
	25	269
Anaximander of Miletus	1	651
	13	411
	15	121
	15	291
	21	778
Anaximenes of Miletus	1	651
	13	411
	15	291
	21	778
Andronicus of Rhodes	1	677
Antisthenes of Athens	2	41
	2	495
	13	412
Apollonius of Tyana	2	65
Apuleius, Lucius	2	104
Arcesilaus	1	61
	2	149
Archytas	2	187
Aristippus of Cyrene	2	237
	13	412
Aristotle	1	199
	2	243
	2	495
	6	131
	13	406
	13	411
	14	661
	15	121
	25	269
	25	775
Aristoxenus	2	244
Arrianus, Flavius	2	329
Athenodorus	2	493
Athenodorus of Tarsus	2	493
Avempace, Ibn Bajja	2	673
Averroes	2	675
Avicebrol	2	124
Avicebron	16	78
Avicenna	2	124
	2	678
Azzubeydi, Mohammed Ibn el Hasan	2	692
Bernouilli, Daniel	3	575
Bion of Borysthenes	3	721
Boëthius, Anicius Manlius Severinus	4	151
Bolzano, Bernhard	4	198
Bonnet, Charles	4	220
Boström, Christoffer Jacob	4	304
Calanus	5	156
Carneades	5	632
	13	412
Cebes	6	158
Celsus	6	176
Chrysippus	6	647
	25	667
Chu-Hi	6	650
	15	680
Cieszkowski, August	6	674
Cleanthes	7	77
	25	667
Cleobulus	7	88
Clitomachus	7	117
Confucius	7	497
Crates of Thebes	8	163
Cratippus	8	163
Crescas	16	80
Crito	8	213
Critolaus	8	213
Damascius	8	426
De Groot, Hugo	13	490
Demetrius Phalereus	8	637

Biographies — cont'd	Vol.	Page
Democritus	8	669
	17	102
Democritus of Abdera	8	669
	13	411
De Wulf, Maurice Marie Charles Joseph	9	50
Dexippus	9	50
Diagoras of Melos	9	56
Dicæarchus	9	77
Diogenes	9	133
Diogenes Laertius	9	134
Diogenes of Apollonia	9	134
	13	411
Diogenes of Sinope	9	133
	13	412
Empedocles	10	299
	13	411
	21	778
Epicharmus	10	416
Epictetus	10	417
Epicurus	2	495
	10	418
	21	778
Epicurus of Samos	10	418
	13	412
Epimenides	10	426
Eratosthenes	10	468
Eubulides of Miletus	10	559
Euclid of Megara	10	563
Eudemus of Rhodes	10	563
Eunapius	10	575
Farabi, Abu Nasr Muhammad ibn Tarkhan al	11	16
Farid Ud-Din Attar	11	20
Favorinus	11	69
Gemistos, Georgios	22	246
Gemistus, Plethon	22	246
George of Trebizond	12	480
Gersonides	16	79
Geulincx, Arnold	12	631
Ghazali	2	124
Gorgias of Leontini	13	65
	25	260
Grot, Nikolai Yakovlevitch	13	489
Grotius	13	490
Halevi, Judah	16	78
Heraclitus	13	411
	14	111
	15	291
	21	778
Huyghens Christian	14	533
	17	415
Hypatia	14	601
Iamblichus	14	614
	20	72
Ibn Gabirol	16	77
Jalal-Ud-Din Rumi	15	598
Jami, Nur-ed-din	15	610
Judah, Ben-Samuel	16	229
Kadariyah	2	123
Kanada	16	289
Kapila	16	307
Kierkegaard, Sören Abye	16	408
Kindi, Alchindius, Abu Yusuf Ya'kub' Ibn Ishak Al-Kindi	16	420
Lao-Tseu, Lao-Tse	16	738
Leucippus	17	326
Libanius	17	345
Li Uhr	16	738
Longinus, Cassius	17	645
	26	555
Lucretius, Carus Titus	2	510
	17	719
Mach, Ernst	18	50
Maimonides	16	78
	18	140
Melissus	18	605
Mencius	18	621
Mendel, Johann Gregory	10	613
	18	621
Menedemus	18	628
Menippus	18	632
Mercier, Desiré Joseph	18	666
Nemesius	20	70
Nicomachus	20	329
Nigidius Figulis, Publius	20	341
Nys, Desiré	20	526
Ocellus Lucanus	20	569
Origen	20	808
	22	527
Origen	22	527
Panætius Rhodius	21	227
Paracelsus	21	274
Parmenides	13	411
	15	292
	21	340
	21	778
Pericles	13	411
	21	584
Phædo	21	702
Pherecydes	21	721
Philo Byblius, Herennius	21	766
Philodemus	21	767
Philo Judæus	21	766
Philolaus	21	767
	23	48
Philo of Alexandria	14	661
Philostratus, Flavius	21	782
Plato	1	198
	2	495
	13	412
	14	661
	21	768
	21	769
	22	21
	22	259
	25	269
	27	6
Pletho	22	246
Plotinus	1	199
	22	259
	26	555
	27	6
Porphyrios	22	374
Porphyry	22	374
	26	555
Posidonius	22	421
Proclus	20	72
	22	628
Prodicus	22	632
Protagoras	13	412
	22	236
	22	671
	23	47
Protagoras of Abdera	25	260
Pyrrho	13	412
	21	778
	23	46
Pythagoras	13	411
	21	778
	22	21
	23	47
	27	6
Raimund De Sabunde	23	179
Ramanuja	27	713
Saadia	16	76
Saaja Gaon	24	75
Sankaracharya	27	712
Santayana	1	201
Senebier, Jean	24	558
Seneca, Lucius Annæus	24	558
Sextus	24	631
Shin-gaku	15	680
Simplicius	25	27
Socrates	1	61
	13	411
	21	768
	25	218
Soloviev, Vladimir Sergelevitch	25	244
Speusippus	25	401
Spinoza, Baruch	9	25
	16	80
	18	708
	21	250
	25	415
Stagirite (Aristotle)	22	21
Swedberg, Emmanuel	26	112
Swedenborg, Emanuel	26	112
Thales of Miletus	13	411
	15	291
	21	778
	26	486
Theophrastus	26	517
Tolstoy, Lyof N	1	201
	26	676
Wang Yang-Ming	29	254
Xenocrates	29	596
Xenophanes	13	411
	29	597
Yokoi Heishiro	29	639
Zbylitowski, André	29	689
Zeno of Citium	29	700
Zeno of Elea	29	700
Zeno of Sidon	2	495
	13	412
	29	701
Zeuxippus	29	706
Zimmerman, Johann Georg, Ritter von	29	709
Zoroaster	29	732

See also **Education; Government and Political Science; History; Language and Literature; Mythology; Psychology; Religion; Sociology.**

PHYSICS

General	Vol.	Page
Aberration	1	40
Absolute	1	53
Acceleration	1	67
	11	463
	18	517
Achromatism	1	91
Action	1	108
photochemical	22	17
Adhesion	1	137
Adsorption	1	156
Ærodynamics	1	180
Aerostatics	1	193
Aggregation, states of	1	236
Air	1	275
dephlogisticated	1	276
pump, first	13	525
trap	1	290
Animal Electricity	1	698
Animal heat	1	698
Animals, luminosity of	17	736
Apparatus, the development of	22	38
Applied mechanics	2	90
Aqueous vapor, weight of a cubic foot of	23	187
Archimedes' screw	2	169
Atmosphere	2	507
Atom	10	180
	22	38
Avogadro's Law	2	680
	12	323
Barometric hypsometry	14	610
Bernouilli's theorem	3	576
	14	572
Bohr's theory	19	322
Blotzmann's theorem	4	197
	19	318
Boyle's law	4	375
	22	36
Brewster's law	17	418
Brownian movement	4	618
Brunonian motion	4	618
theory	4	636
Buoyancy, centre of	6	214
	14	563
surface of	14	563
Camphor movement experiment	26	63
Capillarity	5	554
Capillary attraction	5	554
	29	42
Centigrade scale	26	544
Centrifugal force	6	214
	11	462
Centripetal force	6	215
	11	462
Clarification	7	38
Closed system	22	37
Cohesion	7	216
figures	7	217
Cohobation	7	218
Collimation, line of	7	266
Color	7	306
	19	165
Combustion	7	352
velocity of	7	353
Compressed air	7	447

General — cont'd	Vol.	Page
Condensation	7	477
Congelation	12	52
Conjugate functions	14	570
Continuity, equation of	14	566
law of	14	718
Critical point	8	211
pressure	8	211
state	8	211
velocity	19	315
volume	8	211
Crookes' dark space	27	637
Crystal structure	19	316
Curl of q	14	567
Cycle	25	548
d'Alembert's principle	18	521
Dalton's law	8	424
Dark space, first	27	637
Deflection of the plumb line	8	587
Density	8	687
Diacaustic curve	9	55
Diageotropism	9	55
Dia-magnetism	9	60
	22	40
Diathermancy	9	73
Divisibility	9	204
Doppler's principle	9	262
	25	377
Ductility	9	381
Dynamics	18	539
Dynamics of machinery	9	455
Dyne	9	469
	14	562
Eccentricity	9	522
Eddy currents	11	531
Effusion	9	720
Einstein's relativity	23	338
theory	23	339
Elasticity	10	48
	14	721
	25	728
laws of	25	728
Elastic limit	19	316
Electrons	10	180
Empyreuma	10	309
Energetics	10	327
Energetics, laws of	25	547
Energy	10	327
	22	17
	22	36
conservation of	10	330
law of conservation of	25	547
law of degradation of	25	547
law of dissipation of	25	547
law of transformation of	25	547
mechanical	25	547
potential chemical	22	17
transformation of	22	39
vibratory	22	17
Equation, personal	10	440
Equations, differential	10	441
Equator	11	463
Equilibrium	10	461
chemical	10	461

General — cont'd	Vol.	Page
neutral	10	461
stable	10	461
unstable	10	461
of a solid body floating in a liquid	14	563
Equilibrium, convective	14	563
Eremacausis	10	472
Erg	10	473
Ether	10	533
cosmical	10	533
hypothesis	15	74
phenomenon	15	74
Evaporation	10	594
	25	541
	29	42
Evolution of the kinetic or dynamic (molecular)	22	38
Expansion	10	641
coefficient of	26	545
Experiment	10	643
Experiments of Cavendish	13	164
Explanation	10	644
Explosion	10	651
Eyepiece	10	682
Falling bodies, Galileo's experimental studies of the motion of	11	463
	22	40
Faraday constant	19	319
dark space	27	637
Faraday's Laws	11	17
Fick's theory	25	246
Filtration	7	38
	11	211
Fire-fly, luminosity of	17	736
Flexibility	11	351
Flexure	11	351
Florentine experiment	11	365
Flotation, plane of	14	563
surface of	14	563
Fluid, perfect	14	562
Flux function	14	570
Flying bullets, velocity of	22	6
Force	11	462
	27	567
field of	11	462
Forces, parallelogram of	18	510
polygon of	22	331
potential of the	14	563
Foucault currents	11	531
Foucault's pendulum experiment	11	531
Fourier's series	11	549
	13	712
Freezing	12	52
point	12	53
Friction	12	101
Function, gradient of the	14	568
Gas, liquefaction and solidification of	15	282
perfect	25	548
Gases, compressed	12	320
densities of	25	369
dynamic theory of	22	36

General — cont'd	Vol.	Page
Gases, Kinetic theory of	12	320
liquefaction of	12	324
liquefied and compressed	17	471
spectra of	25	377
Gauge	12	339
Glow worm, luminosity of	17	736
Gramme's ring	15	535
Gravitation	13	163
Gravity	13	164
centre of	6	214
force of	11	463
specific	25	367
waters	29	43
Green's theorem	14	569
Gyration, radius of	13	596
Halo	13	650
Harmonic analysis	13	712
Horizon, artificial	13	599
Horse power	14	411
	15	103
Hydrate theory	25	247
Hydraulics	14	549
	22	37
Hydrodynamics	14	571
fundamental theorem of	14	562
Hydrokinematics	14	564
Hydrostatics	14	562
	22	37
Hypothesis	14	585
	22	36
of an eternal unseen universe	14	718
Ice	14	620
Impact	14	721
Impulse	14	721
	14	731
Inertia	15	111
centre of	6	214
Integraphs	15	204
Integrators	15	204
Ionic theory	15	295
	25	247
Ions	14	46
Irradiation	15	391
Isobarometric lines	15	415
Isodynamic lines	15	416
Isolation	15	416
Kepler's laws	13	163
	16	374
Kinematics	18	516
of machinery	16	421
Kinetics	18	519
Kinetic energy	27	568
Kirchhoff's law	25	377
Lagrange theorem	14	573
Laplace's equation	14	568
theory	5	555
	5	556
Laplacian of q	14	568
Law of the conservation of mass and of energy	14	718
of Dulong and Petit	19	318
Line, mathematical	17	458
of sight	14	382
Lines of flow	14	565
Liquefying air, process for	15	285
Liquids	25	548
Lorentz transformations	23	340
Magdeburg hemispheres	13	525
	18	114
Magic lantern	18	116
mirror of Japan	18	117
Mariotte's law	18	293
Mass	18	303
Material particle	18	511

General — cont'd	Vol.	Page
Matter	18	440
	22	36
properties of	22	37
structure of	22	40
Mechanics	18	509
	22	37
applied	2	90
Metacentre	14	564
	18	695
Metacentric height	14	564
Michelson-Morley experiment	23	337
Molecular mechanism	22	17
movement	22	45
theory	19	312
Molecule	22	38
Moment	19	333
Momentum	11	462
	19	333
Motion, elliptic harmonic	18	518
non-vertical	14	568
perpetual	21	604
Multi-constant	10	51
Natural gas, liquid	12	307
Nature, constants of	7	562
constancy of	22	36
Negative glow	27	637
Newton's laws of motion	11	462
pendulum experiment	13	164
rings	20	293
Nicol prism	20	327
Nobel prizes	20	383
Nobert's test-plates	20	384
Node	20	388
Oscillation, centre of	6	214
Osmosis	21	22
	25	246
Osmotic pressure	25	246
Parakites	16	466
Peltier effect	21	489
Percolation	29	43
Percussion, centre of	6	214
Persistence, law of	25	547
Phosphorescence	21	793
Photography	22	1
	25	377
See also under **Fine Arts — Photography.**		
Physical laboratory	16	619
law	22	36
science	6	81
divisions of	22	37
theory	22	36
Physics	22	36
definition of	22	36
history	22	40
recent developments in	22	39
subject matter of	22	36
Plumb line	22	258
Plummet	22	258
Pneumatics	22	267
Poisson's equation	14	568
ratio	25	729
Pole	22	300
Positive	22	421
column	27	637
Power	22	478
Pressure	14	562
	22	478
atmospheric	23	186
effect of	25	378
Principal axes	14	564
Principia philosophiæ naturalis	18	510
Principle of Archimedes	14	563
Prism	22	602
resolving power of	25	375
Projection	22	644

General — cont'd	Vol.	Page
Purple	23	30
Pyx	23	50
Radiation	23	117
Radiation, comparison of	25	377
Radiations, separation of	25	374
Rari constant	10	51
Reactions	23	243
Red	23	277
Regelation	14	47
	23	319
Relativity, principle of	23	337
Repulsion	23	407
Resolving power of a prism	25	375
Rhythm	23	480
Rigid body	18	512
Rock flowage	23	596
Saturation	24	313
	25	247
Screw	24	470
Shadow	24	638
Shear	25	728
Ship displacement	24	727
Ship's centre of gravity	24	717
	24	718
Siphon	25	44
Soap bubbles	25	157
Solidification	12	52
	25	240
Solids	25	548
Solute	25	245
Solutions	1	137
	25	245
Solvent	25	245
Source density	14	568
Specific gravities, table of	25	368
gravity	19	165
	25	367
Spectra, interpretation of	25	377
Spectroscopy	25	372
Spectrum	22	38
	25	372
comparison of	25	377
Spheroidal condition	25	402
state	25	402
Statics	18	510
Steam	25	540
energy of	25	542
Steel wire, physical properties of	25	605
Stream lines	25	723
Stoke's theorem	14	567
	25	669
Strain	10	49
	25	728
Strength of filament	14	570
of materials	25	728
of source	14	568
Stress	25	728
Supersaturation	25	247
Surface tension	26	62
tensions, table of	26	64
Surfaces, equipotential	14	568
Surfusion	25	241
Sweat	25	586
Taylor's theorem	14	574
	26	297
Temperature	23	186
See subdivision **Heat**, below.		
Tenacity	26	412
Testing machines	25	729
	26	434
Theorem, divergence of	14	565
Thermodynamic functions, special	22	38
Thermodynamics	22	37
	26	527
Thermo-electric couples	26	545

General — cont'd	Vol.	Page
Tone	26	684
Torricellian experiment	26	711
Torricelli theorem	14	572
	26	711
Torsional rigidity	26	713
Transpiration	27	7
Ultimate unseen universe	14	718
Vacuum	27	635
perfect	27	637
Vapor constituent of the atmosphere	23	186
Vaporization	25	541
Vapors	25	548
	27	686
Vector	18	511
	27	706
divergence of the	14	565
flux of the	14	565
lamellar	14	568
lines of the	14	565
magnitude of the	14	565
solenoidal	14	570
tube of	14	565
Velocity	27	567
potential	14	568
Verdet's constant	22	299
Vereinskerze	22	9
Vibration	28	56
Virtual work, principle of	18	514
Viscosity	28	133
Voltaism	28	177
Volume	28	177
Vortex atom	28	186
filaments	14	570
lines	14	570
motion	14	573
	28	186
tubes	14	570
Vortical motion	14	570
Vorticity	14	567
Water	17	572
	29	14
application of ozone to	29	51
density of	14	549
hammer	29	20
problem of the resistance of	14	546
velocity of, through pipes	14	549
volume and speed of flowing	14	549
Wave motion	14	572
	22	37
theory of	29	117
Weber's law	29	145
Windmill	29	380
Wundt's early experiments	22	736
X-ray wave lengths and structure of crystals	22	40
Zeeman effect	22	40
	29	604

Sound

Sound — cont'd	Vol.	Page
Acoustics	1	97
architectural	1	101
Aerial echoes	1	100
Air waves	22	17
Audible sound	22	14
Audition	1	101
Bernoulli's theory	1	99
Cataeoustics	6	36
Chladni's figures	1	99
	6	574
Crystalline selenium	22	14
Doppler's principle	1	100
	9	262
Echo	9	543
Equally tempered scale	1	102
Fibres of Corti	1	101
Fog signals	1	100
	11	411
Gramophone	13	120
Graphophone	13	152
	26	226
Interference	1	101
	15	216
Multiples of the fundamental	1	98
Overtones	1	98
Photophone	22	14
Pipe organ	1	99
Pitch sounds	1	97
Refraction, law of	1	100
Resonance	23	416
Sand figures	1	99
Sound	1	97
ghosts	1	100
loudness	1	98
production	1	98
propagation of	1	99
quality of	1	97
waves	15	216
	22	37
Speaking trumpet	25	365
Telegraphy, submarine sound	26	344
Transverse vibration	1	98
Variation in pitch	1	99
Vibration	28	56
Vibrations of sounding bodies	22	37
Whispering galleries	1	100
	29	260

Light

Light — cont'd	Vol.	Page
Aberration	1	40
Aberration, chromatic	17	289
Aberrations	12	440
Absorption	1	55
Absorption and pleochrism	22	26
Achromatism	1	91
	17	419
Actinometry	1	107
Additive combinations	7	308
Animals, luminosity of	17	736
Approximate determination of mean spherical intensities	22	13
Astigmatism	2	447
	17	289
Atmosphere, optical phenomena of	17	420
British candle, fluctuations of	22	12
standard candle	22	9
	22	11
fluctuations of	22	10
Calcium light	5	161
Calorescence	5	230
Camera lucida	5	260
obscura	5	261
Canary glass	11	402
Candle foot	22	12
power	22	10
Cardinal points	12	438
Catoptrics	6	107
Chemiluminescence	21	793
Color	7	306
analysis	7	307
constants	7	306
sensation	7	306
spectral	22	38
Crystalloluminescence	21	793
Definition (lens)	8	587
Dichroism	9	79
Diffraction	9	106
	17	416
	17	420
Diffusion	9	107
Dioptrics	9	137
Dispersion	9	168
Doppler-Fizeau principle	2	479
Electroluminescence	21	793
Emission, selective	23	119
Flame	11	329
alcohol	25	373
Bunsen	25	373
candle	25	373
oxyhydrogen	25	373
Fluorescence	11	402
	22	39
	23	120
Focus	11	410
depth of	15	100
Fox fire	21	794
Fringes	12	110
Gauss optical theory	12	438
Geometrical optics, fundamental laws of	12	435
Hefner light unit	22	11
Heliography	15	282
Horizontal intensities	22	12
	22	13
Iceland spar	22	26
Image	14	704
equations	12	439
Interference phenomena	17	420
Intermittent light	22	15
in its relation to sound	22	15
La Bougie de l'étoile	22	9
Light	2	479
	17	415
	22	17
	22	38
	22	299
absorption of	22	17
as an electric phenomenon	15	284
barometric	3	272
chemical property of	22	19
circular polarization of	6	693
corpuscular (or emission) theory of	8	18
	27	277
determination of the intensity of	22	12
diffraction of	9	106
elastic, solid theory of	27	277
electromagnetic theory of	27	277
energy	22	17
Finsen	11	228
monochromatic	19	363
nature of	25	372
oxyhydrogen	22	14
polarization of	22	295
from reflection of	15	282
polarized	17	416
	22	26
prism for polarized	15	282
properties of	22	26
ratio of the velocities of	22	26
standards of	22	9
theory of	22	297
undulatory theory of	27	276
unpolarized	22	296
velocity of	2	471
	17	422
wave theory of	27	276
waves of	15	216
Line spectra, temperature effects in the production of	25	378

Light — cont'd	Vol.	Page
Lummer Brodhun body	22	9
Lux	22	12
Mirage	19	220
Motion, absolute	23	337
in line of sight	2	479
Newton's rings	25	373
Nicol prism	22	297
Open arc street lamp, illumination from an.	22	13
Paint, luminous	17	737
Pentane	22	10
Perspective, linear	21	632
Phosphorescence	11	403
	22	39
Photochemistry	22	16
Photography	22	1
Photoluminescence	21	793
Photometry	22	8
Photosynthesis	22	16
Phototherapy	22	18
Polarization by double refraction	22	297
circular	22	299
elliptical	22	297
plane	22	299
Primary bow	23	181
Pyrometry, optical	23	119
Radial velocity, measurement of	2	479
Radiation. See under **Heat** below.		
Radioactivity	23	121
Ray, reflected	22	296
refracted	22	296
ultra-violet	21	798
Rays, actinic	21	798
	22	19
heat	21	798
infra red	14	48
light	21	798
longest wireless	22	39
N	19	676
shortest gamma	22	39
ultra-red	22	19
Reflection	23	119
Refraction	22	26
	23	310
by atmosphere	23	311
double	22	26
	22	28
index of	22	26
indices of various substances	23	311
Refractive index	25	373
Searchlight	24	488
intensity of	24	488
Secondary bow	23	182
Spectral series, law of	25	378
Spectroscopy	25	372
Sunlight, reflected	22	19
Thermoluminescence	21	793
Transmission of light	23	119
Triboluminescence	21	793
Ultra-violet rays	22	19
Unit intensity	22	12
Unsymmetrical light sources	22	13
Vereinskerze	22	11
Vibrations, transverse	22	296
Violet ray	21	798
	22	19
Violle's device	22	11
Water, application of ultra-violet rays of light to	29	52
Waves and wave-motion	29	117
ultra-violet	14	48
Welsbach light	29	189
X-radiation	22	39

Light — cont'd	Vol.	Page
X-rays	11	402
	22	39
	29	593
Zeeman effect	25	378
	29	694

Heat

Heat — cont'd	Vol.	Page
Boiling	14	47
point	4	173
	14	43
	25	541
British thermal unit	26	527
Bunsen Burner	5	26
Caloric	5	230
Calorie	5	230
	14	44
Calorimetry	5	232
	22	37
Calory	5	230
Carnot theorem	5	644
	22	38
	26	529
Centigrade scale	14	43
Chemistry, thermal	26	525
Clapeyron - Clausius equation	22	38
Cohesion	7	216
	14	42
Cold	7	236
light	7	238
Combustion	7	352
Conductivity, coefficient of	14	44
Cooling, velocity of	7	634
Critical density	14	48
pressure	14	48
state	14	48
temperature	8	211
	14	48
Cubical expansion, coefficient of	14	42
De Lisle scale	14	43
Dew point	14	47
Diathermanous body	23	117
Ebullition	9	521
Energetics	10	327
Energy, external work of	25	548
kinetic	14	46
potential	14	46
thermal	25	547
transformation of	25	547
Entrophy	14	50
	26	531
change of	14	50
Ether waves	14	48
Expansion, coefficients of, at constant volume	26	544
free	26	530
Fahrenheit scale	14	43
Fire	11	232
balloon	11	233
Gases, expansion of	14	43
theory of	22	38
Heat	14	41
conduction of	14	44
	23	117
content of water	25	541
convection of	14	43
energy	22	17
	25	548
transformation of	26	529
latent	14	46
mechanical theory of	26	527
mechanical equivalent of	14	49
	25	547
of formation	26	526
polarized	22	299
quantity of	26	525

Heat — cont'd	Vol.	Page
radiant	14	48
	22	299
ray, creation of	23	117
rays	23	117
invisible	22	19
theory of	18	460
transfer of (conduction, convection and radiation)	22	37
Humidity	23	187
Hygrometric state	14	48
Incandescence, stages of	23	45
Internal work or energy	25	548
Linear expansion, coefficient of	14	42
Liquids, boiling points of	14	48
expansion of	14	42
Melting points	14	47
Mercury-in-glass, errors of	26	539
Molecular motion theory	14	41
Planck's Law, deductions from	23	118
Quanta, physical significance of	23	118
Quantum theory	22	39
	23	118
Radiation	14	48
	23	117
black	23	117
composition of black body	23	118
electromagnetic	22	38
emitted by a substance	23	117
from active bodies	23	122
interpretation of	25	377
method of recording	25	376
normal	23	117
simplest type of	23	117
sources of	25	373
Réaumur scale	14	43
Saturated vapor	14	47
elastic pressure of	23	186
Solids, expansion of	14	42
Specific heat	14	45
	25	369
heats, table of	25	370
Steam engine, thermodynamics of	25	547
Steam, latent heat of	25	541
total heat content of	25	541
Stefan's law	23	119
Temperature, absolute	26	530
measured	26	531
reciprocal of the absolute	26	531
Thermo-chemical work	26	526
chemistry	26	525
methods of	26	527
Thermodynamic behavior of a body	26	531
efficiency	14	49
scale	14	49
temperature scale	29	38
Thermodynamics	14	48
	26	527
first law of	14	49
	26	528
formal	22	38
laws of	25	547
principle of	14	563
second law of	14	49
	26	528
science of	26	527
Thermometric scale	26	542
scales, kinds of	26	542
Thermometry	14	43
	26	542
Thermopile	26	536
Thomson effect	26	536

Heat — cont'd Vol. Page
Transparent body..... 23 117
Van der Waals, equations of..... 26 532
26 533
Vapor 14 47
Vapors, unsaturated.... 14 47
Wien's law..... 23 119
Water, specific heat of. 25 369
vapor, pressure of. 14 47

Electricity and Magnetism

Air blast transformer... 10 165
Alternating current..... 10 165
Ampere 27 567
international 10 165
Anode 2 5
10 165
Armature 2 266
Attraction 2 527
Bar magnet..... 18 125
Branch fuse..... 10 165
Bunsen battery..... 5 26
Canopy 10 165
Cathode 6 63
10 165
ray 27 638
Ceiling rosette..... 10 165
Coulomb 8 94
27 567
Corpuscular theory..... 10 200
Daniell cells..... 10 178
Diamagnetic bodies..... 18 125
Diamagnetism 9 60
Dielectric 10 165
Direct current..... 10 165
Electric arc..... 25 374
conductivity of crystals 22 30
current 10 165
22 38
discharge through rarified gases..... 22 40
fluid theory..... 10 106
properties of crystals 22 30
spark 25 374
wave propagation, theories of..... 26 346
waves and crystallography 22 30
Electrical diapason..... 10 150
energy 22 39
quantity factor of energy (the electric charge)..... 22 39
resistance 10 166
23 412
terms 10 165
units 27 566
practical units..... 27 566
waves 14 48
Electricity 10 168
22 38
animal 1 698
and magnetism..... 18 460
its history and progress 10 171
velocity of..... 27 724
Electromagnet 10 165
18 128
horseshoe and straight bar..... 10 175
Electromagnetic radiation 22 39
telegraph 11 178
units 27 566
wave motion..... 22 39
Electromagnetism 15 282
Electrode 10 165
Electrolysis 10 165
15 283

Electricity and Magnetism — cont'd Vol. Page
Electromotive force..... 10 165
Electrostatic units..... 27 566
Electrostatics 10 211
laws of..... 15 283
Farad 11 16
27 567
Faraday's laws..... 11 17
Feeder 10 166
Ferromagnetism 11 142
Flow 22 39
Ground 10 166
Heat, electric..... 10 169
Henry 27 567
Hertzian waves..... 14 153
22 39
or electric wave radiation 15 285
Induction 15 73
balance 15 77
electrodynamic 15 74
electrostatic 15 73
statical 15 173
Insulation 15 175
Joule 27 567
international 10 166
Kathode rays..... 15 284
Kilowatt 27 567
hour 10 166
Leclanché cells..... 10 178
Light, electric..... 10 169
Lightning arrester..... 10 166
17 432
and lightning-rods.. 17 432
Lodestone 18 125
Magnet, moment of a... 27 566
Magnetic field, rotation in the..... 22 299
force 22 39
field of..... 11 182
properties of crystals 22 30
steel needle..... 18 128
units 27 566
Magnetism 18 125
22 38
molecular (Ewing's). 22 38
terrestrial 18 129
22 38
Marconi's coherer..... 10 147
Microfarad 27 567
Ohm 20 624
27 566
international 10 166
Ohm's law..... 20 624
Paramagnetic 18 126
Peltier effect..... 26 536
Röntgen rays..... 29 593
Storage batteries..... 22 11
Telegraphy 26 328
Telegraphy, wireless.... 26 345
Telephone 26 363
Telephone receiver, first. 22 66
Thermo-electric constants of metals... 26 536
law of Tait..... 23 44
Thermo-electricity 26 535
phenomena of..... 26 535
Tubes of force..... 27 127
Volt 27 567
international 10 167
Water voltameter..... 10 160
Watt 27 567
Wave motion..... 23 156
29 119
Wheatstone bridge..... 10 167
29 247
X-Ray 29 593
Zamboni's dry pile..... 29 684
See also under **Engineering — Electrical Engineering.**

Standard Units Vol. Page
Absolute atmosphere ... 27 566
Acre 29 166
Alcoholometry 1 350
Ampere 10 165
10 167
Angstroem unit..... 29 163
Apothecaries' weights .. 29 169
Area, units of..... 29 164
As 2 373
Astronomical unit..... 29 166
Atomic weights, table.. 2 513
Australia, weights and measures of..... 2 623
Avoirdupois 2 689
pound 27 565
system 29 169
Bahar 3 46
Barleycorn 29 165
Barre 3 46
Barrel 3 276
29 168
Bathmetry 3 339
Boll 4 191
Bolt 29 165
Bushel 5 73
29 168
Cable length..... 29 166
Calorie 5 230
Calorimetry 5 232
Calory 5 230
Candy 5 498
Carat 29 170
Catty 6 124
Centimeter-Gram-Second system 27 565
Centner 6 201
Chœnix 6 582
Chopin 6 590
Cord foot..... 29 167
Cord of masonry..... 29 167
Cord of wood..... 29 167
Costa Rica, weights and measures 8 44
Cube, volume of..... 27 567
Cubic foot..... 29 166
Cubic inch..... 29 166
Cubic mile..... 29 166
Cubic yard..... 29 166
Degree 29 166
Degrees of latitude and longitude 8 600
Degrees, measurement of 8 599
Denmark, weights and measures of 8 681
Dimensions 27 567
Dirhem 9 145
Drachma 9 290
Dramm 9 145
Drop 29 167
Dry measures 29 168
Dyne 27 565
Egypt, weights and measures 10 6
Electrical and magnetic units 27 566
Electrical units, practical 27 566
Electromagnetic units.. 27 566
Electrostatic units..... 27 566
Ell (English)..... 10 251
29 165
Engineer's chain..... 29 165
Engineer's link 29 165
Ephah 10 412
Erg 27 565
Farad 10 168
11 16
Fathom 29 165
Finger 29 165
breadth 29 165
Fluid dram..... 29 167
Fluid ounce..... 29 168

Standard Units — cont'd	Vol.	Page
Foot	11	454
	27	565
	29	165
pound	11	455
	27	565
Force de cheval	11	463
Foreign countries, weights and measures of	29	170
Furlong	29	166
Gallon (liquid)	29	167
Grain (Troy)	29	169
Gram	18	733
Gramme	13	120
	25	368
Greece, weights and measures	13	377
Gunter's chain	29	165
Hand	29	165
Hank	29	166
Hogshead	29	168
Horse power	10	351
Hundredweight	29	169
Inch	14	740
	29	164
India, weights and measures	15	8
Kandy	5	498
Kilogram	16	414
	27	565
	29	169
Kilogramme	16	414
	27	565
	29	169
Kiloliter	16	414
Kilolitre	16	414
Kilowatt hour	10	166
Land measures, South African	27	12
League	17	176
	29	166
Length, standards of	25	480
units of	29	164
Line	29	165
Liquid measure	29	167
United States	29	167
Liter	18	733
Maneh	24	679
Mass, standards of	25	480
unit of	25	368
Measure	18	480
dry	29	168
in music	18	480
lineal	18	480
line of	18	480
liquid	29	167
of angles	18	480
of magnification	18	480
of ratio	18	480
unit of	18	480
Measurement, builder's	18	481
Megadyne	27	565
Megaerg	27	566
Megalerg	27	566
Metre	18	729
	18	733
Metric system	18	729
advantages of	18	732
and equivalent, table	18	734
capacity	18	734
length	18	734
mass or weight	18	734
proposed adoption by United States and Great Britain	18	732
simplicity of	18	733
Metrology	29	163
Microfarad	27	566
Micron	19	33
Mil	19	93
	29	165

Standard Units — cont'd	Vol.	Page
Mile	19	56
	29	165
land	29	165
nautical	29	166
Milligram	19	126
Miners' inch	29	165
Morocco, weights and measures	19	468
Nail	29	165
Netherlands, weights and measures	20	90
Nicaragua, weights and measures	20	304
Norway, weights and measures	20	438
Ohm	20	624
Ounce	21	52
Pace	21	87
	29	165
Palm	29	165
Parasang	21	287
Pennyweight	29	169
Perch	21	571
	29	165
	29	167
Peru, weights and measures	21	646
Picul	22	71
Pint	22	104
Pipe	22	107
Point	29	165
Pole	21	571
	29	165
Pood	22	353
Portugal, weights and measures	22	411
Pound	22	472
avairdupois	22	470
Troy	22	472
Poundal	27	565
Proof gallon	29	167
Pud	22	353
Puncheon	23	16
Quarter	29	165
Quintal	23	97
Radian	19	94
Rod	21	571
	23	618
	29	165
Sack	7	398
Second	24	511
	27	565
Seer	24	530
Shekel	24	679
Ships, measurement of	18	481
Sicca	24	777
Skein	29	166
Soundings	25	272
South African land measures	27	12
Spain, weights and measures	25	329
Span	25	342
Stadium	25	468
Standards, Bureau of	25	480
Statute	29	165
Stere	25	623
Stick (timber)	29	167
Stone	25	679
Streams, measurement of	18	481
Surveyor's chain	29	165
Surveyor's link	29	165
Surveyor's measure	29	166
Sweden, weights and measures	26	116
Talent	26	223
Tally	26	230
Thermometry	26	542
Time, standards of	25	480
Toise	26	669
Ton	26	683

Standard Units — cont'd	Vol.	Page
commercial	29	169
long	29	169
short	29	169
Township	29	166
Troy ounce	29	169
Troy weights	29	169
Tun	27	144
Turkey, weights and measures	27	185
Ullage	7	398
Units of measurement	27	565
Units, secondary	27	565
Unit standards	29	163
Uruguay, weights and measures	27	605
Volt	10	167
	10	168
Watt	10	167
	10	168
	29	112
hour	10	167
Weights and measures	29	162
classification of	29	162
of foreign countries	29	170
units of, in the United States	29	164
Winchester bushel	29	168
Wine gallon	29	167
Wine measures	29	386
Wood measurement	29	167
Yard	29	614

Instruments

	Vol.	Page
Acetylene burners	22	11
Actinometer	2	480
	21	798
Æthrioscope	1	203
Alcoholometers	14	582
Altiscope	1	451
Ammeter	10	165
Analyzer	1	622
	22	298
Anemometer	1	678
Brooke	1	678
Dines	1	678
electrical	1	678
Fletcher	1	679
linear hot-wire	1	679
Robinson	1	678
windmill	1	678
Anemoscope	1	680
Annunciator, electric	10	94
Areometer	14	582
Argand burner	2	195
	22	10
Astatic needle	2	443
Atmidometer	2	507
Atmograph	2	507
Atmometer	2	507
Marvin	2	507
Piche	2	507
Wild	2	507
Atwood's machine	2	529
	18	520
Audiometer	2	535
Audiphone	2	535
Auxanometer	2	670
Balance	3	66
Lever	33	66
Precision	3	66
Robervallian	23	576
torsion	26	712
Barometer	3	271
	15	281
Aneroid	1	680
Baroscope	3	273
Bathometer	3	337
Bathymetry	3	339
Bilentilles de billet	3	705
Biograph	3	718
Blowpipe, hydrostatic	13	707

Instruments — cont'd	Vol.	Page
oxyhydrogen	13	707
Bolometer	2	480
	4	195
	22	8
Bourdon	4	349
gauge	18	232
Bunsen burner	5	26
disc	22	8
	22	11
Bunsen photometer, mirrors and screen of	22	11
Burette	5	36
Burning mirror	25	234
Calorimeter	13	707
respiration	5	230
Carcel lamp	22	9
Cathetometer	6	63
Central image	25	376
Ceraunograph	6	223
Chronograph, Benson's	6	645
Chronometer	6	642
Chronoscope, or Chronograph	6	644
Chronoscope, Hipp	6	645
	23	244
Navez-Leurs	6	644
Noble	6	644
Schultz	6	644
Cinematograph	6	685
Collimator	25	374
Colorimeter	7	326
Cones, pyrometric, or Seger cones	7	485
Coulometer	8	94
Crookes tube	8	227
	10	179
Cryophorus	8	265
Cyanometer	8	350
Cyathometer	8	351
Cyclometer	8	362
Detectograph	21	792
Diaphanoscope	9	70
Dictaphone	9	86
	21	792
Diffusiometer	9	107
Drosometer	9	340
Dynagraph	9	455
Dynameter	9	455
	9	461
Earthquakes, instruments for recording	9	496
Ear trumpet	9	485
Electrical measuring instruments	10	159
Electric balance	10	94
Electrometer	10	199
Electrometer, well-known pith ball	15	281
Electromotograph	10	200
Electroscope	18	211
gold leaf	23	122
Eriometer	10	478
Eudiometer	10	564
Eyeglasses	25	371
Extensometer	25	730
Field glass	11	182
Finsen apparatus	22	19
	22	20
Fluid lens	11	402
Galactometer	14	582
	16	640
Galvanometer	2	480
	10	166
	12	254
ballistic	3	100
reflecting	23	300
Galvanoscope	10	166
Gasometer	12	330
Gauge	12	339
Gauges	15	209
Geissler's tubes	12	360

Instruments — cont'd	Vol.	Page
German light bath	22	20
Goniometer	13	46
Graduation, centigrade	26	538
Fahrenheit	26	538
Réaumur	26	538
Gyro compass	13	596
	13	599
Gyroscope	13	596
Harmonicon	13	716
Heliograph	14	78
Heliometer	14	78
Hero's fountain	14	143
Horologium oscillatorium	18	510
Hour-glass	14	443
Hydrodeik	14	594
Hydrograph, Richmond's	14	594
Hydrometer	14	581
chemical	14	582
constant volume	14	581
weight	14	581
Nicholson's	14	581
Hydroscope, Sausson's	14	594
Hygrometer	14	594
first	14	594
Mason's dry and wet bulb	14	594
Regnault's	14	594
Hypsometer	14	610
Induction coil	15	77
Interferometer	25	376
Jolly balance	16	192
Kaleidoscope	16	282
Lactometer	14	582
	16	640
Lamp	16	678
Harcourt	22	10
Hefner	22	10
	22	12
flame, Hefner	22	12
gauge, Hefner	22	12
Hopkins	22	20
mercury vapor	22	20
open arc	22	12
	22	13
Pentane standard	22	10
Lens	17	288
achromatic	13	641
	17	290
aplanatic	2	58
	17	290
apochromatic	17	290
Barlow	3	259
bi-focal	17	290
bull's-eye	17	290
cataract	17	290
Coddington	17	290
	19	34
collective	17	290
compound	17	290
condensing	17	290
coquille	17	290
crossed	17	290
crystalline	17	290
doublet	17	290
eye	17	290
eyeglass	17	290
finder	17	290
fluid	11	402
	17	290
Fresnel	17	290
image	25	374
immersion	17	290
Kryptok	17	290
magnifying	17	290
pebble	17	290
photographic	17	290
positive	17	419
punktal	17	290
spectacle	17	290
Lenses, demonstration	17	290

Instruments — cont'd	Vol.	Page
Lightning rod	9	204
	15	281
	17	432
Magnifier pocket	19	34
Manometer	18	231
Maximum	26	540
Maxwell color discs	7	309
Measuring instruments	18	61
Megaphone	18	593
Micro-metallograph	19	36
Micrometer	19	33
Microphone	15	285
Microscope	17	419
	19	34
binocular	19	36
compound	19	35
dissecting	19	34
solar	19	37
	25	234
thermal	19	36
Microtasimeter	19	38
Minim light	22	20
Mirror	19	221
Mirrors for polarization by reflection	22	296
Nephoscope	20	77
Newton's rings apparatus	17	416
Opaque screen	22	9
Opera glass	20	704
Ophthalmometer	20	708
Ophthalmoscope	20	709
Optical apparatus	17	428
lantern	20	717
Oscillograph	21	18
Pedometer	21	465
Pendulum	11	463
	13	596
	21	502
ballistic	21	505
clock	21	503
Foucault	21	504
Periscope	21	596
Phonometer	21	793
Phonoscope	21	793
Phospharoscopes	21	794
	21	795
Photometer	22	7
	22	8
	22	13
Bonquer's	22	10
Lummer-Brodhun	22	12
Matthew's integrating	22	13
Ritchie	22	10
Rumford	22	8
shadow	22	8
	22	10
Photophone	22	14
Piezometer	22	78
Pluviometer	23	189
Polar clock	22	291
Polariscope	22	295
	22	297
Polarizer	22	298
Power, measurement of	9	461
Pseudoscope	22	728
Psychrometer	14	594
	22	745
Pulse glass	22	799
Pump, air	2	508
Gaede's molecular	27	639
Langmuir condensation	27	639
mercury	27	636
oil valve	27	638
Sprengel	27	636
vacuum	27	638
Pycnometer	14	582
Pyrheliometer	2	480
	23	43

Instruments — cont'd	Vol.	Page
Pyrometer	23	44
Wedgwood	29	154
Pyroscope	23	45
Radiometer	23	126
	27	637
Radio micrometer	4	195
Radiophone	23	126
Rain gauge	23	180
Reflector	23	300
Ritchie screen	22	8
Saccharometer	14	582
	22	299
	24	87
Salinometer	14	582
Scales	24	348
computing	7	453
Seismograph	9	497
	24	533
Seismometer	24	533
Selenium	22	8
Sextant	24	629
Skiascope	25	70
Solar motor	25	234
Sound-producing devices	25	764
receiving devices	25	764
Speaking trumpet	25	365
Specific gravity bottle	14	582
	25	367
Spectacles	25	371
pantascopic	25	371
Spectrometer	25	372
Spectroscope, concave grating	25	376
echelon	25	376
grating	25	375
prism	25	374
Speculum	25	379
Speedometer	25	385
Spirit level	25	420
Stereograph	1	268
Stereopticon	25	627
Stereotrope	25	628
Sterescope	25	627
lenticular	25	627
refracting	25	627
Stereotrope	25	628
Submarine bells	25	764
Sun motor	25	235
Symplesometer	26	169
Telescope	17	419
	26	395
astronomical	26	395
Cassegrainian	5	709
	26	395
Galilean	17	291
	26	396
reflex zenith	26	398
refracting	26	398
terrestrial	26	396
Termobile	22	8
Termograph, manometric	26	537
Thermograph	26	537
electric contact	26	537
metallic strip	26	537
Thermographs, photographic	26	537
Thermometer	15	281
	26	537
air	1	290
alcohol	26	540
clinical	26	540
constant-pressure gas	26	544
constant-volume	26	542
deep-sea	26	541
dew-point	26	541
differential	9	106
	26	541
gas	26	540
	26	542

Instruments — cont'd	Vol.	Page
hydrogen	14	44
metallic	26	541
minimum	26	540
nitrogen	17	485
platinum resistance	26	542
	26	54[illegible]
radiation	26	541
registering	26	541
upsetting	26	541
verre dur	26	539
weight	26	541
wet bulb	26	541
Thermometry	26	542
Thermophone	26	546
Thermoscope	26	546
Thermostat	26	546
Topophone	26	791
Torsion balance	26	712
Ultramicroscope	27	264
Urinometer	14	582
	27	597
U-tube	1	678
Valve-cock	13	707
Vapor lamps	27	686
Hewitt	27	686
Velocimeter	27	724
Vibroscope	28	57
Voltmeter	10	167
Volumeter	14	582
Volumometer	28	179
Water meter	20	23
Weighing machines	29	160
Wick tube, Hefner lamp	22	12
Wundt's apparatus for vision	22	737
Zoetrope	29	720

Biographies

UNITED STATES

Biographies — cont'd	Vol.	Page
Ames, Joseph Sweetman	1	569
Anthony, William Arnold	2	17
Barker, George Frederick	3	255
Bartlett, William Holmes Chambers	3	294
Barus, Carl	3	299
Bauer, Louis A.	3	348
Bedell, Frederick	3	413
Bell, Alexander Graham	3	471
Bliss, William Julian Albert	4	89
Briggs, Lyman James	4	537
Brooke, John Mercer	4	590
Burgess, George Kimball	5	38
Callender, Hugh Longbourne	5	226
Chase, Pliny Earle	6	343
Cole, Alfred Dodge	7	241
Colton, Gardner Quincy	7	333
Comstock, John Lee	7	454
Cooley, Leroy Clark	7	632
Cooper, Thomas	7	637
Crew, Henry	8	189
Cross, Charles Robert	8	229
Day, Arthur Louis	8	518
Derr, Louis	8	715
Draper, Henry	9	312
Eimbeck, William	10	40
Ewell, Arthur Woolsey	10	615
Guthe, Karl Eugen	13	579
Haanel, Eugene	13	601
Hare, Robert	13	706
Henry, Joseph	14	106
Humphreys, William Jackson	14	497
Langley, Samuel Pierpont	16	721
Le Conte, John	17	163

Biographies — cont'd	Vol.	Page
Loomis, Elias	17	652
Magie, William Francis	18	122
Malus, Etienne Louis	18	171
Mayer, Alfred Marshall	18	464
Mendenhall, Thomas Corwin	18	626
Merritt, Ernest George	18	681
Michelson, Albert Abraham	19	18
Millikan, R. A.	10	206
Mohler, John Frederick	19	309
More, Louis Trenchard	19	444
Morse, Harry Wheeler	19	482
Morse, S. F. B.	10	178
	19	483
Nichols, Edward Leamington	20	317
Nichols, Ernest Fox	20	317
Nipher, Francis Eugene	20	367
O'Reilly, Michael Francis	22	439
Parker, Herschell Clifford	21	327
Potamian, Brother	22	439
Reed, John Oren	23	293
Renwick, James	23	382
Richardson, Owen Williams	23	494
Road, Ogden Nicholas	17	433
	23	678
Rosa, Edward Bennett	23	688
Rowland, Henry Augustus	2	475
	23	732
St. John, Charles Edward	24	133
Sabine, Wallace Clement	24	81
Saxton, Joseph	24	343
Sloane, Thomas O'Conor	25	98
Stevens, Walter Le Conte	25	638
Thompson, Benjamin	26	576
Trowbridge, John	17	433
	27	97
Wahl, William Henry	28	213
Webster, Arthur Gordon	29	146
Whitman, Frank Perkins	29	280
Winthrop, John	29	406
Wood, Robert Williams	29	474
Woodward, Robert Simpson	29	500
Wright, Arthur Williams	29	568
Zeleny, John	29	697

GREAT BRITAIN

Biographies — cont'd	Vol.	Page
Bacon, Roger	3	25
Barlow, Peter	3	259
Barnes, Howard Turner	3	266
Barrett, William Fletcher	3	278
Bird, John	3	726
Boyle, Charles	4	374
Boyle, Robert	4	375
Brewster, David	4	486
Callender, Hugh Longbourne	5	226
Crookes, William	8	226
	27	637
Dollond, John	9	237
Drummond, Thomas	9	353
Everett, Joseph David	10	598
Ewing (James), Alfred	10	616
Faraday, Michael	11	17
	15	74
	17	417
Ferguson, James	11	123
Gilbert, William	12	649
Glazebrook, Richard Tetley	12	713

Biographies — cont'd	Vol.	Page
Gordon, Andrew	13	62
Griffiths, Ernest Howard	13	471
Grove, Sir William Robert	13	497
Hall, Chester Moor	13	641
Hall, James	13	642
Joly, John	7	312
	16	193
Joule, James Prescott	10	331
	16	216
Kater, Henry	16	315
Kelvin, Lord	19	320
	26	585
Kirwan, Richard	16	460
Knott, Cargill Gilston	16	491
Larner, Dionysius	16	747
Larmor, Joseph	16	750
Lees, Charles Herbert	17	229
Leslie, John	2	507
Lodge, Oliver Joseph	17	590
	26	346
Loudon, James	17	671
Mackenzie, Arthur Stanley	18	67
McLennan, John Cunningham	18	79
Maxwell, James C.	18	460
	19	317
	27	277
Newton, Isaac	9	168
	19	425
	20	289
Noble, Sir Andrew	20	385
Perry, John	21	606
Playfair, John	22	243
Poynting, John Henry	22	499
Priestley, Joseph	22	573
Ramsden, Jesse	23	206
Rankine, William John MacQuorn	23	213
Rayleigh, John William Strutt, Baron	23	239
	27	265
Rücker, Arthur William	23	751
Rutherford, Ernest	24	67
Sabine, Edward	24	81
Salmon, George	24	190
Shaw, William Napier	24	666
Spottiswoode, William	25	445
Stewart, Balfour	25	643
Stokes, George Gabriel	11	403
	25	669
Tait, Peter Guthrie	26	219
Thomson, Joseph John	2	513
	26	584
Thomson, Silvanus Phillips	26	579
Thomson, William	26	345
	26	585
Tyndall, John	27	234
Wheatstone, Sir Charles	29	247
Young, Thomas	25	373
	29	652

FRANCE

Biographies — cont'd	Vol.	Page
Aguillon, François d'	1	268
Amontons, Guillaume	1	583
Ampere, André Marie	1	585
	2	510
Becquerel, Alexandre Edmond	3	409
Becquerel, Antoine César	3	409
Becquerel, Antoine Henri	3	409
Bernoulli, Daniel	3	575
Billet, Felix	3	705
Bougner, Pierre	4	324
	13	164
Brisson, Mathurin Jacques	4	546
Carnot, Nicolas Léonard Sadi	5	644
Chastelet, Gabrielle E. B. Marquise Du	6	348
Coulomb, Charles Augustin de	8	94
Curie, Marie	8	308
Curie, Pierre	8	308
Descartes, René	8	718
Dulong, Pierre Louis	9	392
Fizeau, Armand Hippolyte Louis	11	306
Foucault, Jean B. L.	11	531
	13	596
Fresnel, Augustin Jean	12	93
	25	373
Gale, Henry Gordon	12	233
Gay-Lussac, Joseph Louis	12	347
Guillemin, Amédée Victor	13	537
Mariotte, Edme	18	293
Mascart, Eleuthère Elie Nicolas	18	375
Papin, Denis	21	269
Pascal, Blaise	2	508
	21	362
Poincaré (Jules) Henri	22	280
Poincaré, Lucien (Antoine)	22	280
Réaumur, René Antoine Ferchault de	23	264
Regnault, Henri Victor	23	325
	25	369
	25	542

GERMANY

Biographies — cont'd	Vol.	Page
Æpinus, Franz Maria Ulrich Theodor	1	178
Bibra, Ernest, Baron von	3	678
Braun, Ferdinand	4	420
Chladni, Ernst Florens Friedrich	6	574
Clausius, Rudolf	7	63
Cornelius, Karl Sebastian	7	710
Dove, Heinrich Wilhelm	9	284
Fahrenheit, Gabriel Daniel	10	711
Fraunhofer, Joseph von	9	107
	12	28
	25	375
Geissler, Heinrich	12	360
Guericke, O. von	2	508
	13	524
Helmholtz, Hermann Ludwig Ferdinand von	10	332
	14	85
Hertz, Heinrich	14	153
Kepler, Johann	15	111
Kirchhoff, Gustav	2	475
	16	455
Knoblauch, Hermann	16	488
Kohlrausch, Friedrich	16	509
Kohlrausch, Rudolf Hermann Arndt	16	509
Korn, Arthur	16	528
Kundt, August Adolf	16	555
Leidenfrost, Johann Gottlof	17	268
Mayer, Julius Robert von	12	542
	18	465
Neumann, Franz Ernst	20	98
Ohm, George Simon	6	81
	20	624
Pfaff, Christian Heinrich	21	701
Plücker, Julius	22	252
Quincke, Georg Hermann	23	97
Roentgen, Wilhelm Konrad	23	626
Steinheil, Karl August	25	611
Weber, Wilhelm Edouard	29	145

ITALY

Biographies — cont'd	Vol.	Page
Aldini, Giovanni	1	355
Avogadro, Amadeo	2	680
	15	533
Borelli, Giovanni Alfonso	4	269
Campani-Alimenis, Matteo	5	274
Ferraris, Galileo	11	138
	15	535
Galileo, Galilei	2	508
	12	237
Gimaldi, Francesco Maria	13	474
Marconi, Guglielmo	15	535
	18	273
Melloni, Macedonio	18	606
Negro, Dal	15	533
	15	535
Pacinotti, Antonio	15	535
	21	90
Righi, Augusto	15	535
	23	519
Sobrero, Ascanio	15	533
Torricelli, Evangelista	2	508
	26	711
Vinci, Leonardo da	25	57
	28	98
Volta, Alessandro	15	535
	28	175

OTHER COUNTRIES

Biographies — cont'd	Vol.	Page
Angstrom, Anders Jons.	1	694
Archimedes	2	168
Arrhenius, Svante August	2	328
Boltzmann, Ludwig	4	197
Bosscha, Johannes	4	291
Ctesibius	8	278
De La Rive, Auguste Arthur	8	607
Divisch, Procopius	9	204
Doppler, Christian	9	262
Drebbel, Cornelis van	9	322
Eötvös, Roland	10	410
Exner, Karl	10	639
Gelcich, Eugene	12	361
Golitzin, Prince Boris Borisovich	13	39
Huygens, Christian	14	533
	15	243
Janssen, Hans	19	36
Janssen, Zacharias	19	36
Lehmann, Alfred Georg Ludvig	17	259
Lenard, Philipp	17	283
Leeuwenhoeck, Antonius van	17	231
Leuwenhoek, Antonius van	17	231
Lorentz, Hendrik Antoon	17	661
Mach, Ernest	15	111
Oersted, Hans Christian	20	594
Onnes, Heike Kamerlingh	20	601
Örsted, Hans Christian	21	11
Peregrinus, Petrus	21	574
Pictet, Raoul	22	70
Plateau, Joseph Antoine Ferdinand	15	391
	22	229
Thoroddsen, Thorvald	26	589
Zeeman, Pieter	29	604

See **Chemistry; Engineering; Mathematics; Metallurgy; Meteorology; Mineralogy.**

POTTERY AND PORCELAIN

General	Vol.	Page
Amphora	1	590
Ampulla	1	590
Arita egg-shell ware	15	743
Arita ware	15	742
Arretine ware	6	220
Awata ware	2	681
Banko-Yaki ware	15	741
Biscuit	4	13
Bizen-Yaki kilns	15	742
Bleu-de-roi	15	99
Canopi	5	525
Canopic vases	5	525
Canton ware	17	704
Cassette	15	99
Celadons	6	552
Ceramics	6	219
	15	514
	19	298
Chinese	6	551
French	11	708
history of	6	219
Italian	22	455
Japanese	15	741
modern	6	222
neolithic	15	514
technical terms	6	219
Chelsea ware	6	379
Chien Lung Period wares	6	553
China, belleek	3	481
bone	6	548
clay	22	369
decoration	6	546
Chinaware	6	548
Ching Dynasty wares	6	552
Clay	7	69
ball	7	70
China	7	69
Cornish	22	369
kaolin	7	69
potter's	7	70
Cockle	15	99
Crazing	15	100
Delftware, English	8	620
Della Robbia ware	8	623
	26	445
Dipping	15	100
Dresden porcelain	9	327
Earthenware	9	494
Bristol	4	551
manufacture of	22	456
Egg-shell	15	101
Faience	10	712
delft	8	620
Figuline	11	203

General — cont'd	Vol.	Page
Flint mill	11	358
Flow	15	102
German stoneware	22	457
Glaze	12	713
Gubbio ware	18	155
Hibiki-de ware	15	741
Hirado-Yaki ware	15	743
Italian majolica	18	154
	22	456
Japan ware, old	15	742
Jasper ware	15	751
Jigger	15	103
Jolley	15	103
Jug	16	238
Kamarœs ware	13	390
Kahjo-garatsu ware	15	741
Kaolin	22	369
Kioto-Yaki	15	742
Ko-Seto pottery	15	741
Kuan Yao	6	551
Kutani-Yaki ware	15	743
Lang Yao ware	6	552
Lindos ware	18	154
Majolica	18	154
Gubbio	18	155
Italian	18	154
	22	456
Mexican	18	155
Urbino	18	155
Meissen ware	9	327
Mezza-majolica	18	154
Ming glazes	6	552
Palissy, Bernhard	6	220
Porcelain	22	369
	22	454
bow	4	359
Bristol	4	552
Chinese	22	370
Chinese hard-paste	22	369
colors	22	369
Derby	8	710
Dresden	9	327
European	6	221
	22	370
	22	372
Japanese	15	742
Lowestoft	17	704
Oriental	22	370
Parian	19	214
Rococo	22	371
Steatite	6	553
technology of	22	369
Worcester	29	514
Potter's wheel	22	453
Pottery	22	453

General — cont'd	Vol.	Page
African	22	455
Bucchero	15	516
Chinese, early	6	551
Delft	22	456
Etruscan	13	390
Faience	10	712
	22	456
German	22	457
Greek	13	390
	22	454
Grueby	22	457
Japanese	22	455
kiln	16	413
manufacture of	22	458
Persian	22	454
Peruvian	22	457
Rookwood	22	457
Roseville	22	457
South American	22	457
Syrian	4	88
United States	22	457
Raku-Yaki ware	15	741
Rhodesian ware	18	154
Rookwood	22	457
Samian ware	24	221
Samovar	24	225
Satsuma ware	22	455
	24	313
Satsuma-Yaki ware	15	741
Saxe ware	9	327
Siculo-Arabian ware	18	154
Slip	25	98
Stoneware	25	695
German	22	457
Sung dynasty wares	6	551
Sung Kuan Yao	6	551
Ting Yao	6	551
Toshiro-Yaki ware	15	743
Urbino ware	18	155
Urn, burial	27	597
Urns	27	694
Vases	27	693
attic, black figure	13	391
attic, red figure	13	391
canopic	5	525
cinerary	27	694
dipylon	13	391
etruscan	10	557
	13	392
Greek	6	220
Vieus Saxe ware	9	327
Wedgwood ware	22	457
	29	154
Yung Chêng Period wares	6	553

POULTRY AND POULTRY RAISING

General	Vol.	Page
Asthenia	2	446
Brooders	22	471
Carrier pigeon	14	341
Chicken lice	6	456
mite	6	456
Chickens (poultry)	22	460
American classes of	22	462
American classes, distinguishing class charactertistic	22	462
Asiatic	22	463
distinguishing class characteristics	22	463
Blue Andalusians	22	464
body changes due to laying	22	466
Brahmas	22	463
Buckeyes	22	462
Cochins	22	463
changes in secondary sexual characters	22	467
comb	22	467
Continentals	22	464
Dominiques	22	462
English	22	464
French	22	464
game and game bantams	22	465
Hamburgs	22	464
illumination on hens	22	466
Javas	26	462
Langshans	16	721
	22	463
Leghorns	22	463
loss of fat due to laying	22	466
Mediterranean	22	463
Mediterranean, distinguishing characteristics	22	464
method of judging for egg production	22	465
Minorcas	22	464
miscellaneous	22	465
molting	22	467
Oriental	22	465
ornamental bantams	22	465
Plymouth Rocks	22	462
Polish	22	464
Rhode Island Reds	22	462
Spanish	22	464

General — cont'd	Vol.	Page
temperament and activity	22	467
Wyandottes	22	462
Domestic fowl, different breeds and varieties of	22	461
Ducks, domestic	9	380
Pekin	21	476
Egg industry	9	726
Fowls, domestic, history of	22	461
origin of	22	460
necessary equipment, the	22	470
principal characteristics of	22	461
fattening	22	470
introduction into China	22	461
Geese, domestic	12	356
Chinese	12	356
Gray African	12	356
Gray Toulouse	12	356
White Embden	12	356
wild (domesticated)	12	356
Guinea fowls	13	539
Incubator	14	747
	22	471
Peafowl	21	450
Pekin ducks	21	476
Pheasant	21	715
Pigeon	15	542
	22	78
	22	461
homing	14	341
Poultry	22	460
American classes of	22	462
Asiatic	22	463
as an industry	22	467
care of the stock	22	468
cleanliness	22	468
details to be observed	22	468
separation of the sexes, the	22	468
body changes due to laying	22	466
breeding	15	542
	22	461
changes in secondary sexual characters	22	467
Continentals	22	464

General — cont'd	Vol.	Page
crate fattening	22	470
diseases	22	469
distinguishing characteristics	22	464
distinguishing class characteristics	22	462
	22	463
English class	22	464
French	22	464
games and game bantams	22	465
Hamburgs	22	464
history of	22	461
history and origin of	22	463
houses	22	470
husbandry, commercial, evolution of	22	465
education and research in	22	465
industry, care of stock	22	468
extent and importance of	22	461
profit of	22	471
selection of variety	22	468
kinds of food	22	469
loss of fat due to laying	22	466
Mediterranean	22	466
method of judging fowls for laying	22	465
miscellaneous	22	465
necessary equipment	22	470
Oriental	22	465
origin of	22	460
ornamental bantams	22	465
pen fattening	22	470
Polish class	22	464
ration for fattening	22	470
secret of successful feeding	22	470
statistics	22	461
	22	462
tick	6	456
Pounce	22	461
Pounce	22	471
Roup	22	569
Turkey	27	180

PRINTING AND PUBLISHING

General	Vol.	Page
Acierage	15	98
Anastatic printing	1	625
Associated Press	22	556
Asterism	15	98
Autoplate	2	668
Back-stay	15	98
Black letter	4	3
Bleed	15	99
Blind tooling	4	235
Block books	4	91
Boards	15	99
Bookbinding	4	234
	22	786
blind-tooling	4	235
colored edges	4	235
coverings	4	235
edition work	4	235
finishing	4	235
marbling	4	235
stamping	4	236
trimming	4	235
Book exports	22	786
imports	22	786
Bookplate	4	243
	22	786
Books	4	223
arrangement of	4	226
censorship of	4	245
commercial value of	22	785
dating of	4	227
decoration of	4	229
dedications	4	228
early American	22	783
illustration of	14	700
miscellaneous	22	785
pagination of	4	228
place of publication	4	227
popular	22	785
prefaces	4	228
printers' emblems	4	228
production and prices	4	225
sizes of	4	226
technical terms	4	229
title pages	4	227
trade, early	22	784
Boxing-in	15	99
Boulak	4	715
	4	716
Bourgeois	4	350
Bulak	4	715
	4	716
Bulletins, early Roman	20	281
Calf	15	99
Cancels	15	99
Canon	5	514
Case	5	697
Catchword	15	99
Catholic Press of America	6	94
Censorship of the Press	6	193
Chase	15	99
Cissing	15	99
Clarendon press	7	37
Colophons	4	227
Color	15	100

General — cont'd	Vol.	Page
Color-printing	7	315
four colors	7	317
Japanese	7	315
quadri-color	7	317
three colors	7	315
tri-color	7	315
two colors	7	315
Companionship	15	100
Composing machines	7	442
Calendoli	7	443
Converse	7	443
Cox	7	443
intertype	7	445
linograph	7	445
linotype	7	443
Macmillan	7	443
monotype	7	444
Scudder monoline	7	443
unitype	7	443
Composition, hand	22	589
Copy	7	669
holder	22	659
Copying	7	669
Copyright	7	670
	22	785
Canadian	7	674
of foreign works	7	673
Couch	15	100
Cradle	15	100
Creaser	15	100
Cropped	15	100
Cross continuous paper-feeder	11	95
Cut	15	100
Dabber	15	100
Dele	15	100
Dentelle	15	100
Distribute	15	100
Dossil	15	101
Drag	15	101
Dresser	15	101
Drop-bar	15	101
Drop-finger	15	101
Drop-roller	15	101
Dump	15	101
Elbow-plate	15	101
Electrotint	10	218
Electrotype	10	218
Electrotyping	10	188
	15	101
Embossing	10	275
Engraving	10	387
line	10	388
machine	18	53
process, halftone	15	284
wood	22	599
Fat-work	15	101
Feeder, Dexter pile	11	95
Feeding machine	11	95
automatic	11	95
Fillet	15	101
First printing in Pennsylvania	4	386
First newspaper in Philadelphia	4	385
Flong	15	102

General — cont'd	Vol.	Page
Folding machines	11	413
Folio	11	416
	15	102
Font	27	237
Footline	15	102
Format	15	102
Forwarder	15	102
Galley	15	102
Gathering	15	102
Giggering	15	102
Glair	15	102
Glyptograph	15	102
Goodson graphotype	7	443
Gothic	15	102
Government Printing Office	13	96
Graining	13	112
Guard	15	102
Half-bound	15	102
Half-tone processes	21	799
Havas Agency	22	556
Heath matrix typograph	7	443
Imposition	15	103
Ink, printing	15	138
Iron press, first	22	598
Journalism	16	217
agricultural	16	220
British	13	313
class publications	16	222
French	15	700
medical	18	545
School of	16	222
Kettlestitch	15	103
Königs steam cylinder press	28	249
Lagerman typotheter or Chadwick	7	443
Law calf	15	103
Letters, proportionate use of	17	321
Linograph machine	7	445
Linotype	7	443
Linotyping	22	590
Lithographic printing	17	516
Lithography	17	514
and photography	17	516
history of	17	514
materials	17	515
process	17	515
transferring	17	516
Lower-case letters	5	697
Machine engraving	18	53
Machines, ruling	23	764
Marbling	4	235
	18	266
Mezzotint	19	7
Monotype machine	7	444
Morocco	15	103
Newsgathering	20	285
News-letter	20	280
Newspaper	20	280
syndicate	20	283
	22	557
Newspapers, American	20	283
Australian	20	283
Belgian	20	282
classification of	20	286

General — cont'd	Vol.	Page
Dutch	20	282
English	13	313
	20	281
German	20	282
French	15	709
Indian	20	283
Irish	20	282
making of	20	280
mechanical equipment	20	287
Publishers' Association, American	20	287
Russian	20	282
Scotch	20	282
Nonpareil	20	396
Numbering machine	20	488
Oleograph	20	659
Paper. See Paper and Paper-making.		
feeder, cross continuous	11	95
Pamphlet	21	222
Paste wash	15	103
Photoengraving	21	799
industry	21	800
Meisenbach process	21	800
Swell gelatine process	21	800
Photogravure	22	7
Photo-lithography	22	7
Pica	22	62
Point	15	104
	29	165
Press Association of London	22	555
Press Associations	22	555
Press, freedom of	22	554
Gutenberg	22	591
Hoe's lightning	14	308
Liberty of	17	351
Presses, automatic	22	593
bed-and-platen	22	591
cylinder	22	592
Gordon jobber	22	592
	22	594
magazine	22	595
newspaper	22	594
color	22	596
offset	22	594
printing	22	590
rotary perfecting	22	595
straight-line	22	595
Presswork in colors	7	317
Printed journals, first	20	281
Printers' League of America	11	757
Printing	14	633
	22	588
anastatic	1	625
block	11	194
	26	477
color	7	315
four-color or quadricolor	7	317
invention of	11	194
Japanese color	7	315
lithographic	17	516
nature	19	773
photographic carbon	15	283
presses	22	590
automatic	22	593
bed-and-platen	22	591
cylinder	22	592

General — cont'd	Vol.	Page
first improvements	22	591
Harris	11	95
magazine	22	595
newspaper	22	594
color	22	596
offset	22	594
rotary perfecting	22	595
straight-line	22	595
web	22	594
rollers	22	590
three-color or tricolor	7	315
three-color process	7	316
trade, American	22	597
two-color	7	315
type sizes	22	589
Woodburytype	29	493
Proof-readers' signs	22	658
Proof-reading	22	658
object of	22	658
Publishers, early	22	783
Publishing	22	783
American	22	783
commercial value	22	785
statistics	22	784
Quarto	23	64
Quoin	23	100
Register	15	104
Reuter Agency	22	555
Rotogravure	23	718
Ruling machines	23	764
Scudder monoline machine	7	443
Skiver	15	104
Stencils	25	615
Stereotype	25	628
Stereotyping	15	281
	22	589
improved process	15	284
introduction of	22	598
Textile printing	26	477
Tooling	15	105
Trade and technical press	26	753
Tree calf	15	105
Type	27	236
and type founding	27	236
casting machines	27	235
composing machine	22	589
founding	27	236
principal	22	589
setting machine, Calendoll	7	443
Cox	7	443
Thorne	7	443
Typothetæ	27	244
Unitype	7	443
Upper-case letters	5	697
Vignette	28	85
Washington hand press	22	591
Web presses	22	594
Wolff Agency	29	442
Wolff Bureau	22	556
Woodburytype printing	29	493
Wood engraving	29	480
Zinc etching process	21	800

Biographies

Biographies — cont'd	Vol.	Page
Adams, Joseph A	22	599
Auer, Alois	2	538
	19	773
Baskerville, John	3	311
Bensley, Thomas	3	522
Bigelow, Marshall Train	3	696
Bodoni, Giambattista	4	146
Bomberg, Daniel	4	201
Bradford, Andrew	4	385
Bradford, William	4	386
Breitkopf, Johann Gottlob Immanuel	4	463
Bruce, David	27	237
Buell, Abel	27	237
Carey, Matthew	22	597
Caslon, William	27	237
Church, William	7	442
Coster, or Koster, Laurens Janszoon	8	44
	22	588
Davenport, Cyril James	8	496
Day, John	27	237
Daye, Stephen	8	519
Elzevir	10	270
Enschedé, Johannes	10	397
Faust, Johann	11	65
Foulis, Andrew	11	533
Foulis, Robert	11	533
Francis, Charles	11	757
Franklin, Benjamin	22	597
	27	237
Froben, or Frobenius, Joannes	12	114
Fust, Johann	11	65
	12	203
Ged, William	12	352
Gering, Ulrich	12	497
Gutenberg, Johannes	11	65
	11	194
	13	579
	22	588
Hanfstängl, Franz	13	677
Hoe, Richard Marsh	14	308
Hoe, Robert	14	308
Hoe, Robert (2d)	14	308
Ives, Frederick E	21	800
König, Friedrich	16	516
Lotter family	17	669
Lotter, Melchior	17	669
Lufft, Hans	17	724
Manutius, Aldus	11	194
	18	250
Maxwell, James Clerk	7	316
Mergenthaler, Ottmar	7	443
	18	672
Moppa, Adam G	27	237
Morris, William	11	194
Moxon, Joseph	27	237
Munsell, Joel	19	596
Petrucci, Ottaviano dè	21	696
Pfister, Albrecht	21	701
Plantin, Christophe	22	160
Quentel, Heinrich	23	83
Sower, Christopher	25	319
Sympson, Benjamin	27	237
Tauchnitz, Karl Christoph Traugott	26	284
Walter, John	28	248
Winchester, Charles M	29	372
Wood, Henry A(lexander) Wise	29	472
Woodfall, Henry Sampson	29	495
Worde, Wynkyn de	29	515

See also under Language and Literature — Journalism.

PSYCHOLOGY

General Vol. Page

Abreaction 22 734
Achievements of psychical research..... 22 733
American Psychological Association 1 558
Adolescence 1 147
mental changes 1 148
physical changes... 1 147
special impulses.... 1 148
Analytical psychology.. 22 741
Animals, memory in.... 18 614
mind in the brute.. 1 712
Apparatus, psychological 22 735
Bibliotics 13 674
Brain, Pythagoras on.. 22 21
Bumps 22 22
Comparative psychology 7 426
Comparison and discrimination in process 9 156
Complication pendulum. 22 736
Consciousness 7 537
Consciousness, biological aspects..... 7 539
disorders of..... 7 541
Cure in psychoanalysis. 22 734
development of..... 24 541
Data, psychological value of..... 8 489
Deduction 8 574
23 263
Depressions 22 22
Determinism, psychological 9 26
Differential sensibility.. 9 156
Discrimination, sensible. 9 156
Disorders of sleep..... 7 541
Dream analysis..... 20 689
Dreams 9 320
Duration or persistence in time..... 9 419
Education, psychology of 9 640
Ego 14 666
Emerson, considered phrenologically 22 22
Evolution 10 605
24 570
Freudianism 12 94
medical 12 95
Functionalism 12 160
Grammapheny 13 674
Graphology 13 674
Handwriting, expert analysis of 13 673
Heart, Aristotle on the. 22 21
Plato on the..... 22 21
15 71
Induction 15 71
23 263
Limina 17 442
Medicine and psychiatry 18 584
Mental changes in adolescence 1 148
characteristics 1 147
development 12 390
evolution 12 390
process 18 649
processes, measuring 23 244
Method of introversion. 22 745

General — cont'd Vol. Page

Mind 14 666
22 737
28 143
and body..... 22 742
Music, the psychology of 19 637
20 393
Nominalism 20 393
27 572
Œdipus complex 20 591
Oneirotechnics 20 689
Parallelism 21 283
Personalty, disorders of 21 632
Phrenology 22 20
Phrenological Journal.. 22 21
Physiognomy 22 42
Physiological basis of multiple personality.. 9 171
Plassopheny 13 674
Psychiatry 22 730
Psychiatry and War.... 22 731
Psychical research 22 732
Psychical research investigations 22 732
Psychoanalysis 22 733
Psychoanalysis, history of 22 735
Psychoanalysis, principles of 22 733
Psychological apparatus 22 735
Psychological instruments, range of..... 22 737
Psychological laboratory 16 620
Psychological problem of personal identity.. 14 665
Psychological School of Economics 9 562
Psychology 18 527
21 772
22 737
abnormal 22 743
animal 1 699
7 426
child 6 465
comparative 7 426
ethnic 22 743
experimental 22 742
folk 11 417
25 164
functional 22 741
genetic 7 426
12 388
22 741
individual 15 67
physician's need of. 18 585
physiological 22 742
in relation to psychiatry 18 586
method of 22 740
of music..... 19 637
of religion..... 23 348
of salesmanship.... 24 182
of testimony..... 26 454
problem of..... 22 739
relation of, to other sciences 22 742
social 14 254
22 742
25 164

General — cont'd Vol. Page

structural 22 741
subject matter of.. 22 738
various departments of 22 741
Psychophysics 22 745
Quantitative determination 9 156
Questionnaire method .. 6 466
Reaction time..... 23 243
Reactions 23 243
Realism 23 254
27 572
Relation of psychology to philosophy..... 22 742
Religion, psychology of 23 348
Reminiscent introspection 6 466
Retentiveness 23 436
Separateness of structure in its relation to psychological function 22 22
Simple Reaction Experiment 22 736
Somnambulism 7 541
Soul 14 666
25 268
Spirit 14 666
Spurzheim's Classification and Localizations 22 21
Symbolism 26 161
Testimony, Psychology of 26 454
Theosophical thought, leaders of 26 518
Tremograms 13 676
Unconsciousness 27 271

Phrenology

Abstractions 24 570
Affection 1 205
Affective memory..... 24 567
After-image 14 704
Apperception 2 82
Apprehension 2 97
Association Times..... 23 244
Attention 2 521
Common accident..... 7 409
Compensation mechanism 18 528
Conscience 7 537
Consciousness 7 537
22 739
intent of..... 15 206
states of..... 22 740
24 568
Contrast 7 599
fundamental law of. 28 138
Creation, instinct of.... 14 707
Destructiveness or murder in phrenology.... 22 21
Determining tendency.. 23 244
Differentia of reasoning, the 23 263
Dominant idea..... 14 662
Dreams 9 320
Energy, mental..... 28 143
Epicritic impulses..... 22 50
Expression 10 665
Faculties, perceptive.... 22 21

Phrenology — cont'd	Vol.	Page
reflective	22	21
Fatigue	11	56
	22	49
Fear	11	74
Feeling	11	95
Idea	14	661
extensive	14	662
extrinsic	14	662
fixed	14	662
free	14	662
implicit	14	662
spatial	14	662
temporal	14	662
Ideas, association of	2	425
Identity	14	665
Image of synæsthesia	14	704
Image, psychological	14	704
tied	14	704
Imagery, auditory	14	705
kinæsthetic	14	705
Images, concomitant	14	704
visual	14	705
free	14	705
Imagination	14	707
	24	568
constructive	14	707
creative	14	707
image of	14	705
	14	707
passive	14	707
Imitation, plastic	14	709
Inference	23	263
Instinct	15	168
Intellect	15	204
Intent	15	206
Interest	15	214
	28	143
Introspection	15	272
Intuition	24	570
Irradiation	15	391
Knowledge, sources of	24	570
Laughter	17	102
Liar, constitutional	18	616
Libido	17	353
Locality, perception of	17	558
Meaning	18	478
Mechanisms, mental	18	528
Medulla oblongata	22	267
Memory	24	568
	28	143
color image	14	704
defect in	18	614
disorders of	18	615
image of	14	705
processes of	24	567
seat of the	22	21
Murder or destructiveness in phrenology	22	21
Nervous system	22	48
	22	49
Neuro-muscular glandular system	22	49
Orientation	20	807
Pain, sympathetic	26	168
Perception	21	568
	28	142
visual	28	138
Phrenology	22	20
Play	22	241
Play-instinct	17	102
Pneumogastric nerve	22	267
Presentiments	18	616
Process, mental	22	738
Propensities	22	21
Rationalization	18	529
Reason	23	263
Reasoning	23	263
is analysis	23	263
Recognition, process of	24	567
Religion, seat of	22	21
	25	165
Self-consciousness	24	540

Phrenology — cont'd	Vol.	Page
Senility, mental changes in	24	563
Sensation	14	704
	24	565
four aspects	24	566
function	24	566
qualities	24	566
recollection of	24	569
stimuli	24	566
Sensations, organic	24	567
subjective	24	566
theories of visual	28	139
Sense-impression	24	568
Senses	24	568
cultivation of	24	571
Sensory area	24	572
Sentiments	22	21
Shock	24	738
Skin	22	50
Smells, classification of	24	571
Steneuphonic index	22	49
Suggestion	25	805
Sympathy	26	168
Temperament	15	68
Thirst	26	557
Thought	26	591
Time	26	630
Times for the choice reaction	23	244
Unconsciousness	27	271
Understanding	23	263
Universal principle	23	263
Veneration	22	21
Vernunft	23	263
Verstand	23	263
Vision	24	571
	28	136
defects of	28	139
Wanderlust	1	148
Will	29	323

Social and Individual Psychology

	Vol.	Page
Advertising, the psychology of	1	170
Collective psychology	14	254
Folk-psychology	11	417
	25	165
Gregarious instinct	25	164
Habit as a psychological phenomenon	13	604
History, its rise and development	14	254
Imitation	14	708
	25	164
Individual psychology	15	67
Mental characteristics of the Japanese	15	635
Mob impulse	14	709
Phenomena of religious revivals	23	349
Play, The "Practice Theory"	22	242
Play, The "Recuperative"	22	242
Progressive historians	14	254
Psychology, ethnic	22	743
of the war	28	675
	28	658
Religious phenomena	23	394
Salesmanship, the psychology of	24	182
Social behavior	25	164
Social psychology	14	254
	22	742
	25	164
Social tendencies	1	148
Sociology	25	214
Suggestibility	25	165
Suggestive imitation	14	708
Superstition, popular	26	41

Social and Individual Psychology — cont'd	Vol.	Page
Superstitions of the world	26	41

See also **Sociology**.

Child Study and Psychology in its Relation to Education

	Vol.	Page
Adolescence	1	147
mental characteristics	1	147
mental changes	1	148
physical changes	1	147
special impulses	1	148
Binet tests	8	714
	18	650
Child psychology	6	465
Child study	6	465
Circular reaction	14	708
Co-educaion	1	149
	7	199
Education, psychology of	9	640
Genius	15	68
Instruction	1	149
Masochism	18	379
Mental science	18	649
Mental tests	6	465
	18	649
Mnemonics	19	276
Play	22	241
Precocity	22	526
Psychological instruction, need of	18	586
Surplus energy	22	241

Abnormal Psychology

	Vol.	Page
Abnormal psychology	22	741
	22	743
Chronic delusional psychosis	22	745
Compulsion neuroses	7	543
Compulsions	22	744
Compulsive acts	22	744
Defectives	22	743
Degeneracy	8	594
Degeneration	8	595
Delirium	8	622
	22	744
Delusions	8	630
	22	744
Dementia precox	8	632
Dissociation	9	171
Double consciousness	9	273
Hallucination	13	649
	22	744
	24	570
Hypnosis	22	733
Hypnotism	14	605
Hypochondriasis	14	607
Hysteria	14	611
Hysterical conversions	7	542
Insanity	15	154
Intoxications	7	544
Kleptomania	16	472
	22	744
Mania Furiosa	22	22
Mania with suspicions and delusions	22	22
Memory and its disorders	18	614
Memory, disorders of	18	615
Mental prophylaxis	22	734
Mesmerism	14	605
	18	686
Narcissism	19	703
Neurasthenic states	7	542
Neuroses	20	101
	22	744
Nervous disorders	22	734
Obsessions	22	744

Abnormal Psychology — cont'd Vol. Page

Paranoia 21 286
22 744
Personality, disorders of 21 682
Psychological symptoms. 22 744
Psychology of the abnormal 22 743
Psycho-neuroses 22 744
Psychopathic individuals 22 743
Psychoses 7 544
Sense-illusions 24 569

Occultism and Related Topics

Apparition 2 74
Astragalomancy 2 451
Astrology 2 452
Chartomancy 11 523
Chirognomy 21 215
Chirosophy 21 215
Clairvoyance 7 30
Divination 9 199
Diving rod..... 9 204
Familiar spirit..... 11 2
Fortune-telling 11 523
Genethlialogy 12 388
Geomancy 12 435
Ghosts 12 634
Hypnotism 14 605
Illusion 14 698
Mediumship, method of.. 25 422
Mesmerism 14 605
18 686
Muscle-reading 19 614
Necromancy 11 523
20 37
Obi, Obe or Obeah..... 20 541
Occultism 20 557
26 521
Oracles 20 720
Ouija board..... 25 422
Palmistry 21 215
Philadelphians 21 734
Planchette 22 150
25 422
Second-sight 7 31
24 514
Spiritualism 25 421
Spiritualistic phenomena 26 363
Table tipping..... 25 423
Table turning..... 26 199
Telepathy 24 569
26 363
Theosophical Society.... 26 517
Theosophic-planes 26 519
Theosophy, anthropogenesis 26 520
cosmogenesis 26 519
fundamental principles 26 518
incarnations 26 520
karma 26 520
reincarnation 26 520
scope of..... 26 524
Theurgy 26 550
Trance 27 1
mediumship 25 422

Biographies Vol. Page

UNITED STATES

Baldwin, James Mark.. 3 77
Brill, Abraham Arden.. 4 541
Calkins, Mary Whiton.. 5 224
Davis, Andrew Jackson. 25 421
Delabarre, Edmund Burke 8 604
Fox, J. D..... 25 421
Franklin, Christine Ladd 12 12
Franz, Shepherd Ivory.. 12 19
Gardiner, Harry Norman 12 287
Gates, Elmer..... 12 336
Giddings, F. H..... 12 645
14 254
Hall, Granville Stanley. 13 642
16 620
Hyslop, James Hervey.. 14 611
James, William..... 15 606
Jastrow, Joseph..... 15 752
Judd, Charles Hubbard. 16 231
McDonald, Arthur..... 18 35
Marshall, Henry Rutgers 18 325
Münsterberg, Hugo..... 19 597
Parris, Samuel..... 21 343
Peirce, Charles Santiago Sanders 21 474
Pillsbury, Walter Bowers 22 88
Richmond, Cora V..... 25 421
Seashore, Carl Emil.... 24 492
Sidis, Boris..... 17 102
24 78
Scripture, Edward Wheeler 24 455
Thorndike, Edward Lee. 26 587
Tingley, Katherine..... 26 642
Titchener, Edward Bradford 26 647
Washburn, Margaret Floy 28 771
Watson, John Broadus.. 29 109
Witmer, Lightner..... 29 433
Woodworth, Robert Sessions 29 500
Yerkes, Robert Mearns.. 29 635

OTHER COUNTRIES

Aretæus 17 103
Bagehot, W..... 3 39
14 254
Barker, Elsa..... 25 422
Bertillon, Adolphe..... 3 581
13 674
Binet, Alfred..... 3 714
18 650
Blavatsky, Helena Petrovna 4 72
26 517
Cattel, J. M..... 6 109
Combe, George..... 7 349
Darwin, Charles..... 8 485
17 108
Demelle, François..... 13 674
Erasmus 10 466
13 674
Fechner, Gustav Theodor 11 77
22 742

Biographies — cont'd Vol. Page

Forel, Auguste Henri... 11 468
Freud, Sigmund..... 9 321
12 93
22 733
Gall, Francis Joseph... 12 239
22 21
Gross, Karl..... 13 485
Herbert, Johann F..... 2 82
14 115
Hering, Ewald..... 14 128
Hobbes, Thomas..... 14 302
Hollander, Dr. Bernhard 22 22
Home, D. D..... 25 422
Huarte De San Juan, Juan de Dios..... 14 463
Huarte y Navarro, Juan de Dios..... 14 463
Janet, Piérre..... 15 612
Jerusalem, Wilhelm..... 16 29
Lamprecht, Karl..... 14 274
16 683
Lavater, Johann Kaspar. 17 117
Lazarus Moritz 14 254
17 160
Le Bon, Gustave..... 14 254
17 161
Lehmann, Alfred Georg Ludvig 17 259
Leibnitz, Gottfried W. von 2 82
17 261
Lodge, Sir Oliver..... 17 590
25 423
Lotze, Rudolph Hermann 17 671
Mach, Ernst..... 14 666
18 50
Mackenzie, Sir George.. 18 68
22 21
Mill, James..... 19 110
Moses, W. Stanton..... 25 422
Palladino, Eusapia..... 21 207
Podmore, Frank..... 22 271
Ribot, Theodore A..... 15 214
23 483
Sighele 14 254
Spencer, Herbert..... 22 22
25 390
Sprenger, Jacob..... 25 459
Spurzheim, John Gaspar 22 21
25 461
Stead, William T..... 25 422
Stout, George Frederick 25 701
Stumpf, Carl..... 25 754
Urquhart, Thomas..... 17 103
Volkmann, Wilhelm Friedolin 28 174
Ward, James..... 28 698
Wundt, Wilhelm..... 2 82
14 254
16 620
29 576

See also **Education; History; Language and Literature; Philosophy,** and **Religion.**

RELIGION

General

	Vol.	Page
Abdiel	1	29
Ablution	1	43
Abraham's bosom	1	48
Absolution	1	54
	21	498
Activity, human, ideals of	26	506
Adam's Peak	1	128
Adoration	1	151
	29	559
Advent	1	164
Advowson	1	172
Æons	1	178
All Saints' Day	1	407
All Souls' Day	1	408
Altar	1	444
Amen	1	477
	17	657
Anachoret	1	653
Ancestor worship	18	181
	23	644
Anchoret	1	653
Anchorite	1	653
Andrew, Saint, Cross of	1	673
Angelus	1	682
Animal worship	1	703
Animism	1	714
	23	345
Annates	1	716
Annihilation	1	719
Anthony, Saint, Cross of	2	17
Antiphony	2	36
Apocalyptic literature	2	59
Apologetics	2	65
Apostasy	2	68
Apostle spoons	2	69
Art, ecclesiastical	9	527
Ascension Day	2	378
Asceticism	2	378
Ash-Wednesday	2	383
Asylum	2	484
Ave Maria	2	672
Bambino	3	129
Band-meetings	3	137
Banns	3	210
Baptism	3	218
Baruch	2	60
Beatification	3	386
Beloken Paschen	17	698
Bema	3	496
Benedicite	3	504
Benediction	3	508
	4	80
Benedictus	3	508
Benefice	3	508
Bible Society	3	672
Bibliomancy	3	677
Bidding prayer	3	685
Blasphemy	4	64
Blessing	4	80
Body, astral	2	451
Book of Common Prayer	4	230
Boy bishop	4	370
Breviary	4	474
Brief, Papal	4	534
Bull, Papal	5	8
Burnt offering	5	63
Calendar	5	191
	6	655
	14	207
Camp-meetings	5	272
Candlemas	5	497
Canonization	5	523
Canons, Book of	5	524
Canons of Hippolytus	5	525
Canons of the Church of England	5	525
Care Sunday	5	606
Catechesis	6	47
Catechism	6	48
Catechumens	6	48
	17	658
Catholicism, social	25	173
Celibacy	6	169
Censorship, ecclesiastical	14	751
exercise of	14	752
Chancery	6	283
Chantry	6	293
Charity	6	309
	14	40
Childermas Day	6	470
Chiliasm	6	510
Chrisom	6	596
Christianity, evidences of	2	65
Christmas	6	623
Churches, approximate membership	22	689
Church	6	654
calendar	6	655
Christian, divisions and statistics	6	604
rate	6	657
Cloister	7	123
Collation	7	253
Collop Monday	7	272
Colors in art and symbolism	7	328
Commination	7	402
Communicatio Idiomatum	7	417
Communio, Idiomatum	7	417
Communion	7	417
Compline	7	442
Conclave	7	462
Concord, Book of	7	463
Conference	7	494
Confessional	7	495
Confession, Sacramental	7	494
Confirmation	7	497
Congé D'Elire	7	499
Congregation	7	500
Congregational Education Society	7	500
Consecration	7	545
Consistory	7	549
Conventicle	7	602
Convent	7	601
Conversion	2	68
	7	611
Convocation	7	615
Cosmogony	8	32
	13	375
Counsels, Evangelical	10	589
Credence	8	171
Cross	8	229
adoration of the	8	230
	13	51
exaltation of the	8	230
Tau	2	17
	8	239
Crosses, ecclesiastical	8	239
and crucifixes	8	238
pectoral	8	239
processional or station	8	239
reliquary	8	239
rood	8	239
Crowns, votive	8	251
Crucifix	8	240
Crypt	8	265
Denominationalism	22	687
Disestablishment	9	164
Dominica in Albis	17	698
Doxology	9	289
	17	657
	17	658
Druids	9	350
	22	198
Dulia	29	559
Easter	9	507
Sunrise Pilgrimage	9	509
Ecstasy	9	570
Education, moral	9	629
Election	10	61
Elohim	10	264
Elohist	10	264
Ember-days	10	274
Emmanuel	14	712
Emmaus	10	296
Enclosure	10	315
Encyclical	10	316
Enoch, secrets of	2	60
Epacts	10	410
Epiphany	10	427
Episcopal Theological School	10	429
Espousals	10	505
	17	135
Establishment	13	294
Establishments, ecclesiastical	10	518
Estufa	16	468
Eucharist	10	560
Evangelical Alliance	10	589
Evangical Association	10	589
Exactions	10	617
Exorcism	10	641
Exorcist	10	641
Expectation Sunday	10	642
Expectation week	10	642
Experience meeting	10	643
Extravagantes	10	674
Extreme Unction	10	675
	17	135
Fanaticism	11	9
Fasting	11	52
	17	136
Fast, Pascal	11	52
Feast of the Dead, Iroquois	11	154
Feast of Tents	11	75

General — cont'd	Vol.	Page
Feast of Tabernacles	11	75
Feast, immovable	11	75
movable	11	75
Festival	11	153
Festivals of the American Indians	11	153
Festivals, Aztecs	11	154
Cherokees	11	153
Chinese	11	155
Christian	11	156
Creek Indian	11	153
Egyptian	11	155
Greek	11	154
Incas	11	154
Jewish	11	155
Mohammedan	11	155
Persian	11	155
Phrygian	11	155
Roman	11	154
Toltecs	11	154
Fetichism	11	158
Fetishism	11	158
Fire philosophers	11	243
Fire-walking	11	248
Flagellation	11	323
Frankincense	12	7
Friar	12	100
Friday	12	102
Galilean	12	237
Gehenna	14	81
Gentiles	12	402
Geography, biblical	12	417
Gloria Patri	12	719
God	12	743
belief in	26	506
existence of	26	506
Godfather and godmother	12	745
Godless month	12	747
Golden rule	13	28
Good Friday	13	51
	14	331
Guild	13	534
Hades	14	81
Heart-burials	14	40
Heart in art and symbolism	14	40
Heaven	14	54
Hell	14	81
Heresy	14	127
Heretic	14	128
Hermit	14	132
Heroic Act	14	141
Holiday	14	316
Holy Day	14	326
	17	186
Holy Ghost, seven gifts of	24	609
Holy orders	14	327
Holy Saturday	14	331
Holy water	14	381
Home missionary movement	19	241
Hyperdulia	29	559
Idealism	14	663
Idol	14	669
Idolatry	14	669
I. H. S.	14	614
Immanuel	14	712
Incense	14	739
Incontinence, clerical	13	453
Index librorum prohibitorum	14	751
Indulgence	15	78
Indult	15	80
Infidel	15	120
I. N. R. I.	14	614
Interim	15	216
Intoning	15	271
Itinerancy	15	558
Jesus Christ	16	41

General — cont'd	Vol.	Page
Jew, The Wandering	16	48
Karma	16	310
Kiva	16	468
Laity	16	656
Lamb in art	16	671
Lapsed	16	745
Lent	17	291
Libation	17	345
Liberty, religious	17	348
Light, Inner	15	142
inward	15	142
Litany	17	504
Lord's Prayer, The	17	657
Low Sunday	17	698
Lucifer	17	717
Magic	18	115
	23	346
Mammon	18	179
Man, creation of	23	344
Christian anthropology	18	181
Marriage	18	311
	23	539
Marriages, mixed	19	274
Martyr	18	344
Mass	17	135
	18	393
Matins	18	438
Maundy Thursday	14	331
	18	448
Michael	19	10
Michaelmas	19	13
Millennium	19	116
Minster	19	212
Miracles	19	218
Monotheism	19	369
Moses, Assumption of	2	60
Nature-worship	19	776
	23	346
Nazarene	20	19
Neophyte	20	75
Nepotism	20	78
Nones	20	396
Octave	20	574
Offerings and sacrifices	20	597
Ophiolatry	24	598
Paraclete	21	274
Passover	11	75
	21	371
Pentecost	11	75
	21	556
Phenomena, religious	23	349
Philosophy of the Absolute: The religious problem	21	775
Pilgrimages	22	85
Polemics	2	65
Polytheism	13	375
	22	336
Posadas	22	419
Postulant	22	437
Prayer	22	515
beads	22	515
for the dead	22	515
week of	22	515
Priest	22	571
Propaganda	22	659
Propaganda, theosophic	26	521
Protestantism, keystone of	14	127
Quasimodo	17	698
Quietism	18	584
	23	89
Ratio studiorum	16	39
Red-letter Day	23	282
Relics	23	341
Religion	23	342
established	23	346
Influence of the Great War upon	23	346

General — cont'd	Vol.	Page
natural	19	770
	23	343
psychology of	23	348
revealed	23	342
State	23	346
theories of the origin of	23	344
Renegade	23	376
Requiem	23	407
Revelation, possibility of	23	342
Retreats	16	37
Retreat, spiritual	23	436
Religious revivals, phenomena of	23	349
Rogation Days	9	508
	23	626
Sabæanism	24	76
Sabaism	24	77
Sabianism	24	76
Sabbath	24	78
mosaic ordinances of the	24	79
origin of	24	78
Sabbatical year	24	79
Sacraments	17	135
	24	91
Sacrifices	24	94
Africa	24	97
American Indians	24	97
in Ancient Egypt	24	95
in Babylonia	24	95
Gaulic	24	97
Germanic tribes	24	97
Greek	24	95
India	24	95
kinds of	24	97
Mexico	24	97
in the Old Testament	24	96
rabbinical view	24	96
Roman	24	95
Sacrilege	24	98
Sacristy	24	98
Sermon on the Mount	17	657
Serpent-worship	24	598
Sheol	14	81
	24	696
Ship in Christian symbolism	24	722
Shrine	24	759
Shrovetide	24	759
Shrove Tuesday	24	759
Simony	13	453
	25	25
Slavery	25	88
Snake dance	25	144
Socialism, early Christian	25	173
Christian, recent development of	25	180
Socialists, Christian	25	173
Social service, Christian	11	560
Soul, transmigration of the	27	6
Statistics, church	24	39
Presbyteries	22	537
religious	22	688
Stone worship	25	687
Studies, Pplan of	16	39
Sunday	26	30
Sunday schools, modern	26	34
Sun worship	26	29
Supererogation	26	39
Supernaturalism	26	41
Swastika	26	111
Symbol	26	159
Symbolism, origin of religious	23	361
Synod	26	175
Temple	14	57
Testaments of the Twelve Patriarchs	2	60

General — cont'd	Vol.	Page
Theism	26	505
cosmological argument	26	505
ontological argument	26	505
teleological argument	26	505
Theocracy	26	508
Theosophical Society of America	16	232
Theosophy	26	517
invisible helpers	26	522
official period	26	521
period of discipleship	26	521
probationary path	26	521
probationary period	26	521
scope of	26	521
Tithes	26	647
Tongues, confusion of	26	686
Totemism	23	345
	26	715
Tradition	26	764
Unbelievers	17	658
Uncleanness	27	270
Vespers	28	43
Viaticum	28	56
Vine in art and symbolism	28	100
Vow	28	194
Water worship	29	67
Week, Great	14	331
Holy	14	331
Passion	14	331
Penitential	14	331
Silent	14	331
Witchcraft	29	430
Women, churching of	6	664
Worship	29	559
freedom of	29	559
Yahwist	10	264
Zoolatry	29	728

BIBLE

Bible-General

Bible-General	Vol.	Page
Abaddon	1	6
Abba	1	9
Adonay	1	149
	16	8
Elohim	16	8
Allegorism	1	411
Alpha and Omega	1	435
Amalekites	1	461
Ammonites	1	579
Amorites	1	784
Anakim	1	605
Anath	1	626
Anathema	1	626
Anathoth	1	626
Angels	1	682
Annunciation	2	3
Anointing	2	5
Antichrist	2	26
Anti-Tübingen movement	20	181
Antitype	2	43
Apollyon	2	65
Apostle	2	69
Archangel	2	165
Ark	2	255
Asiarch	2	399
Azazel	2	688
Baal	3	2
Babel, Tower of	3	5
Babylonia	3	7
Babylonian captivity	3	9
Babylonian exile	3	9
Baptism for the dead	3	219
Beelzebub	3	428
Bel	3	451
Bel and the Dragon	3	451
Belial	3	469
Bene Mikra	16	73
Bible	3	612
	14	633
	16	89
difference between Roman Catholic and Protestant	28	199
in the schools	24	393
Society	3	672
statistics	3	673
Biblical Archæology	3	657
	3	664
	26	515
Biblical criticism	3	669
	26	515
Biblical introduction	26	515
Biblical parable	21	271
Biblical philology	26	515
Biblical symbols	23	362
Blood, avenger of	4	106
Boanerges	4	135
Bohan, stone of	4	157
Bottomless pit	4	319
Brazen serpent	4	424
Brethren of the Lord	4	471
Burning bush	5	58
	19	499
Calvary	5	236
Canon	5	513
Canonics	26	515
Capta Judea	16	25
Cave Machpelah	21	197
Cave of Khureitûn	21	197
Chemosh	6	409
Cherub	6	420
Concordance	7	463
Corban	7	678
Corruption	28	198
Creation	8	169
Crucifixion	8	253
Dagon	8	392
David's Cave	21	197
Day of the Lord	8	520
Decalogue	8	552
Deluge	8	629
De Profundis	8	704
Deutero-canonical books	2	61
Deuteromic, Code	21	551
Disciple	9	150
Ecce Homo	9	522
Eden	9	580
Elisha's Fountain	21	198
Elohim	21	550
Epistle of Hope	21	658
Exegesis, Biblical	10	628
Hermeneutics	26	515
Fees	22	665
Futurists	2	58
Geography, Biblical	12	417
Gifts	22	665
Hebrew prophecy	22	664
Higher criticism	3	670
	14	183
	20	180
faults of	20	180
Hosanna	14	422
Indiction	15	65
Inspiration	15	166
Interpretation, allegorical	1	411
Jacob's Well	15	592
	21	198
Jehovah	16	8
Jerahmeel	16	17
Jeshurun	16	34
Judas Iscariot	16	230
Law of Holiness	21	555
Laws of Ezekiel	21	555
Logia	3	627
Mark	18	297
Men of Grace	3	614
Milcom	19	55
Molech	19	329
Moloch	19	329
Mosaic authorship	21	551
Mosaic laws	19	500
Nethinim	20	96
Nicolaitans	20	327
Non-canonics	3	628
Nunc Dimittis	20	499
Oral Prophet's Message	22	665
Palm of the Bible	21	217
Pharoah's mandate	19	499
Post-Mosaic elements	21	553
Præterists	2	58
Priestly Code	21	551
Prophets	3	617
distinctive dress	22	665
Psalmody	22	725
Religious ecstasy	22	665
Sabæans	24	76
Sabaoth, Lord God of	24	78
Satan	9	87
Saul's Cave	21	197
Selah	24	535
Syncretism	20	181
Talmud	3	639
	26	231
Ten Commandments	19	499
Textual criticism	3	669
	26	481
Unclean spirits	8	671
Yahweh	21	550
	26	456

Codices, Versions, Famous Bibles, etc.

Codices, Versions, Famous Bibles, etc.	Vol.	Page
Apocalyptic number	2	60
Bible, Armenian	3	654
Berleburger	3	558
Breeches	3	656
	4	459
Chained	3	655
Devil's	9	39
Douai	3	654
	9	272
first English	1	291
first printed English version	8	131
Forty-two-line	11	65
Geneva	3	656
	8	131
	12	395
Georgian	3	654
Golden	13	25
Great	3	655
Indian	15	28
Luther's, first edition of	17	724
manuscripts of the	18	246
Mazarin	11	65
	13	579
most ancient	3	62
Polychrome	3	657
	22	327
Rainbow	3	657
Rosin	3	657
Vinegar	28	102
Wyclif's	14	127
Canaanite script	3	630
Codex Alexandrinus	1	374
	21	177
Augean	2	540
Augiensis	2	540
Babylonicus Petropolitanus	3	630
Bezæ	5	233
	20	166
Cantabrigiensis	5	253
Ephræmi	21	177
Friderico-Augustanus	7	197
Laudianus	5	253

Codices, Versions, Etc.— cont'd

	Vol.	Page
Codex Sinaiticus	7	197
	21	177
Vaticanus	3	626
	21	177
Complutensian Polyglot	22	330
Document theory of the Pentatuch	21	551
Elohistic document	21	551
Gematria	3	640
Hagiographa	3	617
Hexapla	3	631
	22	330
Hexateuch	21	550
Jehovistic document of the Pentateuch	21	551
Latin Bible before Saint Jerome	28	196
Manuscripts, Biblical, Armenian	18	250
Basilean	3	307
Cambridge	5	253
Coptic	18	250
Greek	18	247
Hebrew	18	247
Latin	18	249
Old Testament Greek	18	247
Papyrus	18	246
Syriac	18	249
Vellum	18	246
Masoretic Text	3	630
	8	453
	18	247
Muratorian fragment	3	625
	19	608
Old Testament, Jewish translation	3	652
Palimpsests	18	246
Pentateuch, Samaritan	3	632
	24	219
Peshitta	3	653
Polyglot of Antwerp	22	330
Polyglot, Bagster's	22	330
Complutensian	7	442
Paris	22	330
Pre-Masoretic Text	18	247
Psalter	22	727
	28	197
Qabbala	3	640
Received text	20	178
Scriptures, Christian	3	622
Secret wisdom	3	640
Septuagint	3	631
	24	575
Sinaitic Palimpsest	20	166
Targums	3	632
	26	268
Tetrapla	22	330
Tōrāh	21	549
Translations, Christian	3	653
Variant texts	3	630
Versio Itala	15	426
Verisimilia	20	168
Versions	3	631
	3	652
Version, Alexandrian	1	374
authorized	3	656
King James	24	614
Old Latin	28	197
Philoxenian	21	782
revised	3	656
	23	447
Rheims and Douay	3	654
Versions, Syriac	26	192
Vulgate	3	654
	11	559
	28	195
books included in	28	199
Clementine	28	199
during the Middle Ages	28	198

Codices, Versions, Etc.— cont'd

	Vol.	Page
English translations of	28	200
official text of	28	199
printed	28	198
text, value of	28	199
Zadokite fragments	29	680

Biblical Personages

	Vol.	Page
Aaron	1	4
Abel	1	34
Abiah	1	41
Abiathar	1	41
Abigail	1	41
Abijah	1	41
Abijam	1	41
Abimelech	1	42
Abner	1	44
Abraham	1	47
Abram	1	47
Absalom	1	51
Achan	1	86
Achar	1	86
Achish	1	90
Adam	1	114
Adonijah	1	150
Adoni-Zedek	1	150
Agabus	1	228
Agag	1	229
Agur	1	269
Ahab	1	269
Ahasuerus	1	270
Ahaz	1	270
Ahaziah	1	270
Ahithophel	1	270
Amasa	1	464
Amaziah	1	468
Ammishai	1	464
Amos	1	584
Amraphel	1	591
Ananias	1	623
Andrew	1	673
Annas	1	716
Apollos	2	65
Aquila	2	112
Asaph	2	375
Asher	2	385
Athaliah	2	490
Azariah	2	688
Balaam	3	64
Balak	3	65
Barabbas	3	227
Barak	3	227
Bar-Jesus	3	254
Barnabas	3	261
Barsabas	3	287
Bartimæus	3	292
Baruch	3	298
	12	206
Belshazzar	3	495
Benaiah	3	499
Benhadad	3	514
Benjamin	3	517
Ben Sirāch	3	613
Bernice	3	574
Bezalel	3	605
Boaz	4	137
Caiaphas	5	146
Cain	5	147
Caleb	5	189
Cephas	6	218
Chedorlaomer	6	373
Cornelius	7	709
Cush	8	333
Dan	8	443
Daniel	8	451
David	8	499
Deborah	8	544
Delilah	8	621
Demas	8	632

Biblical Personages — cont'd

	Vol.	Page
Didymus	9	94
	26	570
Dinah	9	123
Dionysius the Areopagite	9	135
Dives	9	198
Ebenezer	9	519
Eglon	9	730
Eli	10	239
Elihu	10	239
Elijah	10	239
Elisha	10	244
Elizabeth	10	245
Elymas	3	254
Enoch	10	392
	12	207
Ephraim	10	416
Esau	10	489
Esther	10	522
Eve	1	114
Evil-Merodach	10	605
Ezekiel	10	686
Ezra	10	688
Gabriel	12	215
Gedaliah	12	352
Hadassah	10	522
Hagar	13	614
Haman	13	6[illegible]2
Hannah	13	679
Hazael	14	23
Herodias	14	137
Hezekiah	14	163
Isaac	15	404
Isaiah	15	407
Ishmael	15	411
Issachar	15	424
Jacob	15	588
Jair	15	597
Jairus	15	598
Jannes and Jambres	15	614
Japheth	15	748
Jedidah	15	767
Jeholakim	16	8
Jehoram, or Joram	16	8
Jehoshaphat	16	8
Jephthah	16	16
Jeremiah	3	614
	16	18
Jesse	16	35
Jesus, Son of Sirach	16	41
Joash	16	159
Job	16	150
Joel	16	153
John the Baptist	14	137
	16	161
Jonah	16	194
Joseph	16	211
Joseph of Arimathæa	16	212
Joshua	16	213
Josiah	16	214
Jotham	16	214
Judith	2	62
	16	236
Lamech	16	675
Levi	17	328
Lot	1	47
	17	668
Luke the Evangelist	11	261
	17	725
Methuselah	18	727
Micah	19	9
Michal	19	14
Moses	19	499
Nehemiah	20	57
Nicodemus	20	326
Nimrod	20	350
Noah	20	381
Obadiah	20	535
Og	20	603
Old Testament names	19	685

Biblical Personages — cont'd

	Vol.	Page
Omri	20	684
Pharaoh	21	707
Philip the Apostle	21	745
Saint Paul	11	261
	24	156
Saint Peter	11	261
	24	163
Shem	24	691
Simon Magus	25	25
Zacchaeus	29	680
Zacharias	29	680
Zechariah	29	691
Zephaniah	29	702

Biblical Topography

	Vol.	Page
Aaron, Hill of	1	5
Abanah	1	6
Aceldama	1	82
Adullam	1	156
Ænon	1	177
Ahava	1	270
Ajalon	1	293
Amanah	1	6
Argob	2	222
Arimathæa	2	284
Asia in the Bible	2	398
Baca, the Valley of	3	10
Bahurim	3	48
Bashan	3	306
Bathsheba	3	338
Beersheba	3	430
Belus	3	495
Bethabara	3	590
Bethany	3	590
Beth-Aven	3	589
Beth-Dagon	3	589
Bethel	3	590
Bethesda	3	590
Beth-Horon	3	589
Bethlehem	3	591
Beth Peor	3	589
Bethphage	3	593
Bethsaida	3	593
Beth-Shan	3	589
Beth-Shean	3	589
Bethshemesh	3	593
Bethsura	3	589
Beth-Zur	3	589
Beulah, Land of	16	692
Bilhah	3	702
Bithron	4	23
Bozrah	4	378
Calah	5	154
Canaan	5	288
Cana of Galilee	5	288
Capernaum	5	551
Caphtor	5	553
Carmel	5	628
Chazor	14	25
Cherith	6	414
Cities of the Plain	6	704
Cities of Refuge	2	484
	6	704
City of David	6	716
Dalmanutha	8	420
Dead Sea	8	726
Dibon	9	77
Edom	9	591
Esdraelon	10	497
Gerizim	12	497
Geshur	12	626
Gethsemane	12	627
Gezer	12	632
Gibeah	12	643
Gibeon	12	643
Gilboa	12	650
Gilead	12	652
Gilgal	12	653
Hazor	14	25
Hebron	14	60

Biblical Topography — cont'd

	Vol.	Page
Idumæa	9	591
Mizpah	19	226
Mizpeh	19	226
Moab	19	277
Mount Hor	1	5
Neapolis	20	22
Nod, Land of	16	698
	20	387
Ophir	20	706
Red Sea	19	499
Sion	29	714
Thyatira	1	294
Zebulon	29	691
Zebulun	29	691
Zion	29	714

Old Testament Subjects

	Vol.	Page
Jahvist narrative	14	209
Old Testament	14	184
	14	596
	28	197
Canon of	3	613
interpretation, Gentilic	3	641
Jewish	3	638
prophecy	2	59
teaching	23	423
text criticism	3	629
Pentateuch	21	549
Pentateuch, Mosaic authorship of the	14	209
Pentateuchal criticism	21	550
Psalms, penitential	21	511
translation	5	689

Old Testament Books

	Vol.	Page
Canticles	5	533
Chronicles, Books of	6	636
	14	209
Daniel, Book of	8	452
	16	70
	23	423
Deuteronomy	9	33
	16	70
Ecclesiastes	9	523
Ecclesiasticus	2	62
	9	537
Esther, Book of	10	522
Exodus, Book of	10	639
Ezekiel, Book of	10	686
	23	423
Ezra	2	60
	3	615
	10	689
	14	209
Genesis, Book of	12	385
	23	423
Habakkuk, Book of	13	602
Haggai, Book of	13	615
Hosea	14	423
	23	423
Isaiah, Book of	15	407
	23	423
Jeremiah, Book of	16	20
Lamentations of	16	23
Job	12	206
	16	150
	23	423
Joel, Book of	16	153
Jonah, Book of	16	194
Joshua, Book of	16	213
Judges, Book of	16	232
Kings, Books of	14	209
	16	443
Leviticus, Book of	17	830
Maccabees	23	424
Malachi, Book of	18	157
Micah, Book of	19	10
Moses, Five Books of	21	549

Old Testament Books — cont'd

	Vol.	Page
Nehemiah, Book of	14	209
	20	59
Numbers, Book of	20	486
Obadiah, Book of	20	535
Pentateuch	21	549
Proverbs, Book of	22	705
Psalms, Book of	22	725
	23	423
Davidic	22	726
liturgical	22	726
Maccabean	22	726
musical	22	726
Psalter	22	727
Ruth, Book of	24	66
Samuel, Books of	24	228
Tobit, Book of	26	665
Wisdom, Book of	29	426
of Solomon	2	62
	29	426
Zechariah, Book of	29	692
Zephaniah, Book of	29	702

New Testament Subjects

	Vol.	Page
Evangelists, symbols of the four	10	590
Gospel, first use of the term	13	71
fourth, relation of	13	73
hypothesis, oral	13	71
Gospels	13	71
grouping of the	13	74
historicity of the	13	74
synoptic	13	71
	26	176
Marcan hypothesis	3	650
Marcan source	13	78
New Testament	14	596
	14	736
	28	197
canon of the	3	621
chronology	20	163
codices	20	178
criticism	20	176
interest of	20	165
interpretation, history of	3	646
problems	20	165
prophecy in	22	665
teaching	23	424
text criticism	3	633
theology	20	182
origins, determination of	20	165
Pastoral epistles	21	416
Pauline epistles	21	416
Protevangelium	22	689
Pythagorean theorem	20	165
Two document theory	13	73

New Testament Books

	Vol.	Page
Acts of the Apostles	1	109
Apocalypse	2	58
Catholic epistles	6	92
Epistle to the Colossians	7	330
	21	418
Epistle to the Corinthians	7	693
	21	417
Epistle of the Corinthians, Third	7	695
Epistle to the Ephesians	10	413
	21	419
Epistle to the Galatians	12	232
	21	417
Epistle to the Hebrews	21	416
Epistle of James	15	607
Epistles of John	16	157

New Testament Books — cont'd	Vol.	Page
Epistle of Jude	16	231
	21	659
Epistle of Peter	21	657
Epistle to Philemon	21	739
Epistle to the Philippians	21	418
	21	747
Epistle to the Romans	21	418
	23	653
Epistle to the Thessalonians	21	417
	26	548
Epistles to Timothy and Titus	26	635
Epistle to Titus	26	654
Gospels	3	623
Gospel of John	16	157
Gospel according to Luke	17	725
Gospel according to Mark	18	298
Gospel according to Matthew	18	442
Timothy, Epistle to	26	635
Titus, Epistle to	26	654

Apocrypha (Old Testament)

Apocrypha	2	60
	3	615
	3	624
	23	424
Baruch	2	61
Books of	3	299
Baruch's Roll	16	22
Bel and the Dragon	2	61
Enoch, Books of	10	392
Esdras	2	61
Books of	10	498
Isaiah, martyrdom of	2	62
Jubilees	2	62
Maccabees	2	61
Book of the	18	18
First Book of	14	209
Moses, assumption of	16	231
Old Testament Apocrypha	2	61
Prayer of Manasses	2	61
Rest of Esther	2	61
Solomon, Psalms of	2	62
Song of the Three Holy Children	2	61
Susanna, history of	2	61
Tobit	2	61

Apocryha (New Testament)

Abgar, Epistle of	2	62
Acts of Paul and Theba	2	62
Barnabas, Acts of	3	261
Epistle of	2	62
	3	261
Gospel of	3	261
Clement, Epistle of	2	62
Diatessaron of Tatian	13	74
New Testament Apocrypha	2	62
Gospels of the	2	62

Biblical Commentators, Critics, Etc.

Abbott, Ezra	1	14
Adeney, Walter Frederic	1	136
Alexander, Joseph Addison	1	367
Alford, Dean	1	379
	10	634
Allen, William	1	416

Biblical Commentators, Etc.— cont'd	Vol.	Page
Aquila, Ponticus	2	113
Arethas	2	173
Arias, Montanus Benedictus	2	233
Arnobius the Younger	2	312
Assemani, Joseph Simon	2	415
Astruc, Jean	2	483
Augustine	2	544
	10	630
Bacon, Benjamin Wisner	3	19
Baethgen, Friedrich	3	37
Barton, George Aaron	3	297
Baudissin, Wolf Wilhelm	3	348
Bauer, Bruno	3	348
Beck, Johann Tobias	3	403
Bedell, William	3	413
Beecher, Willis Judson	3	427
Bengel, Johann Albrecht	3	513
Bentley, Richard	3	527
Bertheau, Ernst	3	579
Berthold von Regensburg	3	580
Bertholet, Alfred	3	580
Beza, Theodore de	3	605
Bickell, Gustav Wilhelm Hugo	3	680
Bissell, Edwin Cone	4	22
Blakesley, Joseph Williams	4	58
Bleek, Friedrich	4	76
Bogerman, Jan	4	154
Bousset, Johann Franz Wilhelm	4	354
Bredenkamp, Konrad Justus	4	459
Bretschneider, Karl Gottlieb	4	472
Briggs, Charles Augustus	4	536
Broughton, Hugh	4	600
Brown, Charles Rufus	4	604
Brown, Francis	4	605
Brown, John	4	607
Brown, William Adams	4	612
Browne, Edward Harold	4	613
Bruce, Alexander Balmain	4	624
Bryennios, Philotheos	4	650
Budde, Karl Ferdinand Reinhard	4	672
Burgon, John William	5	41
Burkitt, Francis Crawford	5	48
Burton, Ernest De Witt	5	68
Butler, James Glentworth	5	79
Calmet, Augustin	5	228
Calvin, John	5	237
	10	632
Camerlynck, Achille	5	262
Campbell, Colin	5	278
Carpenter, Joseph Estlin	5	652
Casas, Bartolomé de las	5	694
Caspari, Karl Paul	5	705
Castellio, Sebastianus	6	4
Chase, Frederic Henry	6	342
Chrysostom, John	6	649
	10	630
Clarke, William Newton	7	49
Cobern, Camden McCormack	7	177
Coleman, Lyman	7	243
Conant, Thomas Jefferson	7	457
Converse, James Booth	7	610
Cook, Stanley Arthur	7	622
Coverdale, Miles	8	131
Craig, James Alexander	8	150
Cruden, Alexander	8	254

Biblical Commentators, Etc.— cont'd	Vol.	Page
Curtiss, Samuel Ives	8	318
Dalman, Gustaf Hermann	8	419
Davidson, Andrew Bruce	8	503
Davidson, Samuel	8	505
Day, George Edward	8	518
Delitzsch, Franz	8	623
Diodati, Giovanni	9	132
Dionysius Exiguus	9	136
Dobschütz, Ernest von	9	215
Driver, Samuel Rolles	9	337
Duff, Archibald	9	387
Duhm, Bernhard Lawrd	9	389
Dukes, Leopold	9	391
Echellensis, Abraham	9	541
Eichhorn, Johann Gottfried	10	26
Elhorst, Hendrik Jan	10	239
Ellicott, Charles John	10	253
Enzinas, Francisco de	10	406
Erbt, Wilhelm	10	469
Ess, Johann Heinrich von	10	507
Ewald, Georg Heinrich August	10	614
Faber, Jacques Lefèvre d'Estaples	10	691
Fabri, Jacques Lefèvre d'Estaples	10	691
Fairbairn, Patrick	10	716
Faulhaber, Michael	11	62
Findlay, George Gillanders	11	216
Geddes, Alexander	12	353
Godet, Frédéric	12	745
Grun, William Henry	13	424
Gregory Thaumaturgus	10	630
	13	448
Griesbach, Johann Jakob	13	469
Hackett, Horatio Balch	13	607
Hieronymus, Eusebius	28	196
Hitzig, Ferdinand	14	299
Hort, Fenton John Anthony	14	417
	20	165
Hrabanus, Maurus	23	103
Hug, Johann Leonhard	14	476
Jacobs, Henry Eyster	15	591
Jacobus, Melancthon Williams	15	592
Jerome	16	26
	28	196
Julicher, Gustav Adolf	16	242
Kamphausen, Adolf Hermann Heinrich	16	289
Kellner, Max	16	341
Kendrick, Asahel Clark	16	352
Kent, Charles Foster	16	361
Kirkpatrick, Alexander Francis	16	459
Kitto, John	16	467
Knudson, Albert Cornelius	16	501
Lachmann Karl Konrad F. W	16	634
	20	179
Lange, Johann Peter	16	718
Lapide, Cornelius à	18	181
Leander	10	507
	17	177
Lee, Robert	17	221
Lightfoot, J. B	10	634
Luther, Martin	10	631
	17	751
Martin, Gregory	18	337
Mathews, Shailer	18	437
Meyer, Heinrich August Wilhelm	10	634
	19	2

Biblical Commentators, Etc.— cont'd Vol. Page
Miller, William..... 19 121
Milligan, George..... 19 125
Milligan, William..... 19 126
Mitchell, Hinckley Gilbert 19 266
Monod, Frédéric..... 19 364
Morrison, Robert..... 19 481
Nicholas of Lyra..... 20 317
Oehler, Gustav Friedrich 20 593
Origen 10 628
14 341
20 808
Payne-Smith, Robert... 21 435
Perowne, John James Stewart 21 603
Plummer, Alfred..... 22 258
Poole, Matthew..... 22 354
Purver, Anthony..... 23 31
Purvey, John..... 23 31
Quesnel, Pasquier..... 23 84
Rabanus Maurus..... 23 103
Riddle, Matthew Brown. 23 510
Ritschl, Albrecht..... 23 542
Robinson, Edward..... 23 579
Sanday, William..... 24 253
Sanders, Frank Knight. 24 254
Sawyer, Leicester Ambrose 24 339
Schaff, Philip..... 24 362
Schodde, George Henry. 24 384
Scott, Thomas..... 24 441
Scrivener, Frederick Henry Ambrose..... 24 455
Simon, Richard..... 25 24
Smith, William Benjamin 25 129
Smith, William Robertson 25 129
Soden, Hans Karl Hermann 25 221
Stellhorn, Frederick William 25 613
Strong, James..... 25 739
Stuart, Moses..... 25 747
Swete, Henry Barclay... 26 128
Thomas, William Henry Griffith 26 574
Tischendorf, Konstantin von 20 179
26 645
Toy, Crawford Howell.. 26 737
Tregelles, Samuel Prideaux 20 179
27 37
Ulfilas 27 262
Ulphilas 27 262
Van Hoonacker, Albin August 27 672
Vitringa, Campegius.... 28 155
Walton, Brian..... 28 251
Wellidon, James Edward Cowell..... 29 178
Wescott, Brooke Foss... 10 634
20 165
29 220
Wood, Irving Francis... 29 473
Wulfilas 27 262
Zahn, Theodor..... 29 682

THEOLOGY

Theology-General

Absolute 1 54
Accommodation 1 76
Act 1 105
Antediluvian 2 15
Apologetics 2 65

Theology-General — cont'd Vol. Page
Articles of Faith of the Church of Jesus Christ of Latter-Day Saints. 19 465
Augustinianism 2 545
Calvinism 5 240
Calvinism, New School.. 20 539
Cambridge Platonists . 3 253
Charity 6 309
Christian doctrine, development of..... 6 609
Christianity 6 617
evidences of 2 65
Church doctrine..... 14 736
Deistic movement in England, The..... 23 226
Demiurgos 8 639
16 93
Depravity 8 703
Devil 9 37
Docetæ 8 216
Docetism 14 737
Doctrinal formula..... 13 295
Doctrinal values..... 20 165
Doctrine of Jesus..... 23 424
Doctrine of the Two Ways, The..... 20 168
Dogma 9 230
Dogmas and customs... 16 97
Dogmatics 2 65
Dogmatism 22 688
Education, theological.. 9 664
Roman Catholic 9 665
Protestant 9 666
Encænia 10 314
Encenia 10 314
Evangelical 10 588
Evolution 2 514
Ex cathedra..... 10 617
Ex opere operato..... 24 93
Faith 10 723
Faith, rule of..... 11 724
23 764
Federal theology..... 11 84
Guardian Angel..... 13 515
Hidden of All Hidden.. 16 94
Holy Ghost 1 35
14 326
Images, veneration of.. 14 705
Infallibility 13 112
Papal 6 65
Infant baptism..... 24 93
John, Revelation of.... 23 440
Kenosis 16 359
modern doctrine of. 16 360
Kenotic theories..... 14 738
Keys, power of the.... 16 388
Kingdom of God..... 16 441
Latitudinarians 5 253
17 96
Metatron 16 93
Natural law..... 17 141
Pantheism 21 249
Pantheistic conceptions. 14 738
Paraclete 1 35
21 275
Polemics 2 65
Pre-existence, doctrine of 14 717
Protestant worship..... 22 688
Providence 22 708
Revelation 23 440
fact of..... 23 343
knowability of..... 23 343
Saint Paul, doctrine of. 23 424
Sacraments, effects of the Seven 24 93
24 92
Teaching, Johannine... 20 185
Judaic 20 184
Pauline 20 184
Theology 26 512

Theology-General— cont'd Vol. Page
Anglican 13 295
Cappadocian 3 307
definition and scope. 26 512
exegetical 26 515
Greek 26 515
historical 26 515
Latin 26 515
Mercersburg 18 656
mystical 19 669
new 20 185
New England..... 20 122
Oberlin 20 539
organic arrangement of subject matter. 26 514
pastoral 21 377
Patristic 21 404
practical 26 515
progress of 26 516
prominent stages... 26 515
Protestant era..... 26 516
Protestant principle of 26 516
relation of, to philosophy 26 513
representative 26 515
scientific value 26 514
scope of 26 513
systematic 26 515
the Queen of the Sciences 19 748
Theotokos 26 522
Virgin birth..... 14 736
Vision, beatific..... 3 386
Writers, theological.... 26 516

Christology

Agapat 17 658
Antitrinitarian 2 41
Arianism 2 233
Atonement 2 513
Christ of Experience... 6 629
Christ of History..... 6 629
Christ, Incarnation of.. 2 514
redemption of..... 2 514
Christology 6 623
Communion 7 417
17 658
Conception, Immaculate, of the Blessed Virgin Mary 7 460
Consubstantial 7 577
Consubstantiation 7 577
Eucharist 10 560
17 658
17 659
Filioque 11 208
Holy Ghost, procession of 11 208
22 628
Holy Spirit, procession of 11 136
Homoiusian 14 348
Homoousian 14 348
Host 14 433
Hosta Sacra..... 14 433
Immaculate Conception. 14 711
Immortality 14 716
Immortality, conditional 7 480
Impanation 7 578
27 10
Incarnation 14 735
24 93
progressive 14 738
Jesus Christ, divine nature of..... 6 625
human nature of... 6 626
Logos 17 610
Lord's Supper..... 17 658
17 659
Lovefeast 17 658

Christology — cont'd	Vol.	Page
Manner of Christ's presence in the Sacrament	27	10
Mass	17	659
	18	393
Real presence	23	249
	27	9
doctrine of	17	659
	23	542
Resurrection	23	422
of Christ	23	425
ecclesiastical evidence of	23	425
manner of	23	425
Pagan traces of	23	422
Patristic evidence of	23	425
Ritschlianism	14	738
	23	542
Sacrifice, Eucharistic	17	660
	24	94
Wafer, consecrated	17	660
Transsubstantiation	7	577
	13	296
	17	659
	17	660
	27	9
Trinity	14	737
doctrine	27	69
doctrine of a modal	14	737
Union, hypostatic	14	608
Wafer, consecrated	17	660

Man

Creationism	8	170
Evil, origin of	10	605
Imputation	14	731
Man	16	94
Christian anthropology	18	181
fall of	10	732
Sin	25	30
Sins, actual	25	30
mortal	25	30
original	20	809
	25	30
remission of	2	514
venial	25	30
	27	736

Salvation: Soteriology

Adoption	1	151
Antinomianism	2	35
Arminianism	2	272
Attrition	2	527
Beatitude	3	387
Belief	3	469
Buridan's ass	5	44
	12	47
Catholic Faith, doctrines of the	6	65
Confession	7	494
	21	496
Congruism	7	519
Contrition	23	384
Conversion	7	611
Decrees of God	8	572
Faith	10	723
rule of	10	724
Fatalism	11	54
Foreordination	11	468
Free will	12	46
Gomarist school	13	40
	15	125
Grace of God	13	102
Grace, Roman Catholic Church's doctrine of	13	103
Intercession	24	120
doctrine of	15	207
Intermediate state	15	224
Justification	16	265
by faith, doctrine of	26	516

Salvation: Soteriology — cont'd	Vol.	Page
Non-resistance, doctrine of	20	394
Penance	21	495
Sacrament of	21	495
Perseverance	21	612
final	21	612
Predestination	11	468
	22	527
Propitiation	22	664
Regeneration	23	319
Repentance	23	384
Repristination	16	265
Reprobation	23	388
Sanctification	24	248
Will, freedom of	12	49
	13	103
	29	323

Future State: Eschatology

Body, resurrection of the	14	717
Eschatology	10	490
Future life	12	204
	14	717
Immortality	14	716
	14	717
Life eternal	14	717
Paradise	21	274
Probation after death	22	624
Purgatory	23	27
Souls, abode of	14	717
Transmigration of the soul	14	717
	27	6

Creeds, Covenants, Confessions

Articles, The thirty-nine	2	361
Confession, The Westminster	7	495
	17	660
Council of Chalcedon, formula of	14	737
Covenant	8	129
Creed	14	737
Apostles'	8	174
Athanasian	8	174
Augsburg	8	175
Calvinian	8	175
Nicæo-Constantinopolitan	11	208
Nicene	8	174
	14	185
	20	311
Tridentine	27	55
Westminister	8	175
Creeds and confessions	8	174
Doctrine, five points of	11	305
Faith, articles of	2	358
Protestant creeds and confessions	22	688

See also **Religion — History, Christian.**

Natural Theology

Anthropolatry	2	20
Anthropomorphism	2	24
Deism	8	602
Demon	8	670
Demonology	8	671
Freethinker	12	52
Gnosticism	12	737
Gnostics	12	738
Theology, natural	2	65
	19	770
as a science	19	770
main arguments	19	770
method of	19	770

RELIGIONS

Sects and Churches, Christian

	Vol.	Page
Abyssinian Church	1	60
Adventists	1	164
	6	607
	19	122
Seventh-Day	1	165
Anabaptists	1	598
	23	302
Anglican Church	11	262
	14	327
	22	681
	22	687
Anglicanism, fundamental principles of	22	680
Apollinarianism	14	737
Arianism	27	293
Arians	14	275
Armenian Church	2	269
	6	605
Armenians, United	27	301
Associate Reform Synod of the South, The	22	539
Baptist churches	6	606
Baptist Church of Christ	3	219
Baptistines	3	219
Baptist Missions in Burma	4	136
Baptists	3	219
Antimission	2	34
Freewill	3	225
German Seventh-Day	12	499
Northern	20	428
Old School	2	34
	3	225
Primitive	3	225
Seventh-Day	3	225
	24	78
Sixth Principle	3	225
Southern	25	310
Two-Seed-in-the-Spirit	3	225
United	3	225
	27	302
Baptist Brethren, German	12	498
Broad Church	4	567
Bezpopovtsi, principal sects of the	23	220
Brethren, Bohemian	4	158
	4	471
of the Free Spirit	4	471
Buchanites	4	662
Calvinism	5	240
Calvinists	22	686
Cameronians	5	265
Campbellites	5	276
	5	282
Catholic Apostolic Church	6	63
Catholic Church	6	64
Roman	6	64
	6	70
	6	604
	13	232
	14	327
	16	494
in the United States	6	82
social service in the of the United States,	6	71
Independent	14	740
Catholic Copts	6	88
Catholic Indian Missions, Bureau of	6	92
of the United States	6	93
Catholicism	14	280
	22	688
Catholics, Armenian	13	456
German	12	499

Sects and Churches, Christian — cont'd	Vol.	Page
Old	14	749
	20	652
Christians, Chaldæan	6	251
Christian Church	6	603
Divisions	6	604
Christian and Missionary Alliance	6	611
Christian Reformed Church in North America	6	611
Christian Science	6	612
	9	577
Christian Union Churches	6	614
Christianity	6	616
	11	261
	11	556
Christians	11	258
Advent	1	164
Churches of God	6	662
Christians of Saint Thomas	6	621
Christians of the Universal Brotherhood	9	281
Church of the Brethren	19	440
Church of Christ, Scientist	6	607
Church of England, The	6	606
	13	292
	13	695
	14	341
	22	680
in the American colonies	22	681
established	14	82
New England	22	681
Church of God	1	165
in Christ	18	634
Church of Ireland	13	236
Church of Jesus Christ of Latter-Day Saints	6	607
	19	463
	24	204
Church of the New Jerusalem	6	656
Church, an Organization of Christians	6	654
Church of Scotland	22	541
Churches of God	6	662
in Christ Jesus	1	165
Churches of the Living God	6	662
Churches, New Jerusalem	6	607
Congregational Methodist Church	7	500
Congregationalism	4	615
	7	501
Congregationalists	6	606
	13	297
Copts	7	668
Darbyites	8	472
	24	574
Disciples of Christ	5	276
	6	607
	9	151
Dissenters	9	170
Doukhobors	9	281
Dowieites	9	287
	23	357
Dunkards	12	498
Dutch Church	9	434
Eastern Rite, Churches of	9	511
Ebionites	14	736
Ellerians	10	252
Encratites	10	316
English Church	12	164
English clergy, Protestant Episcopal Church	22	681
English Methodism, history of	18	721

Sects and Churches, Christian — cont'd	Vol.	Page
Episcopal Church, Scottish	13	232
Established Church	13	232
	14	296
Eudoxians	10	565
Eunomians	10	575
Evangelical Church, United	27	308
Febronianism	11	76
Felixians	11	104
Fifth Monarchy Men	11	200
Flagellants	11	321
	11	554
Flandrians	11	333
Flemings	11	333
Fraticelli	12	25
Free Church of England	12	42
Free Church in Italy	15	536
Free Church of Scotland	5	498
	12	42
	22	541
United	27	308
Free Church, United	13	232
Free Congregations	12	43
Friends	6	606
the Religious Society of	12	106
Society of	11	563
of the Temple	12	108
Galenists	12	235
German religion, history of	12	544
Glassites	24	253
Gnosticism	21	416
Gomarists	13	40
Greek Church	17	659
Hermanos Penitentes	11	322
Hermesianism	14	131
Hicksite	12	107
	14	169
High Church	14	177
Holy Ghost and Us Society	24	253
Holy Rollers	23	358
Humanitarians	14	488
Hussites	14	527
Independents	13	297
Inghamites	15	130
Institutional Church	15	173
Irvingites	15	400
Kornthalites	24	574
Jacobite Christians	15	590
Jacobites	15	591
Jansenism	15	615
	21	363
Joachimites	16	149
Jumpers	16	246
Khlisti	16	392
Khlysti	16	392
Krimmer Brueder Gemeinde	18	635
Labadists	16	587
Latter-Day Saints	23	382
	27	382
Low Church	17	698
Lutheran Church in America	17	755
Lutheran Church, statistics	17	758
Lutheranism	17	759
Lutherans	22	686
Evangelical	6	605
Macedonians	18	45
Malakanes	19	329
Manichæans	18	214
	21	415
Maronites	18	306
Melchites	18	603
Mennonite Brethern Church	18	635

Sects and Churches, Christian — cont'd	Vol.	Page
Mennonite Church	18	633
conservative Amish	18	634
old order	18	634
old order Amish	18	634
reformed	18	634
Mennonites	6	606
	18	623
Methodism	4	136
Methodist Church, Australian	18	723
Methodist Church of Canada	18	726
Methodist Church of Japan	18	726
Methodist Church, Colored	18	726
Congregational	18	725
Free	18	725
New Zealand	18	723
Primitive	18	722
	18	725
	22	578
Welsh Calvinistic	22	538
(Presbyterian) Welsh Calvinistic	22	542
Wesleyan	18	722
	18	725
Union	18	721
United	18	722
Methodist churches	6	606
independent	18	723
of the world	18	721
Methodist Episcopal Church	18	723
African	1	226
	18	726
Board of Education of	18	727
British	18	726
Colored	18	726
South	18	724
Methodist Episcopal Zion Church, African	18	726
Methodist Protestant Church	18	725
Methodists	18	721
	29	196
Calvinistic	5	240
Moravian	15	130
New Connection	20	120
Primitive	4	353
United Free Church	27	303
Welsh Calvinistic	29	190
Molokani	19	329
Monarchians	19	335
Monophysites	19	365
Monothelites	19	369
Moravian Church	19	440
Moravians	6	606
	19	229
	27	302
Mormons	19	463
	27	614
Mucker	19	546
Muggletonians	19	548
Nazarenes	20	19
Nazarites	20	21
Nestorianism	20	87
Nestorians	11	199
Non-Episcopal churches	14	327
Occidental churches	19	240
Oneida Community	20	480
Oriental Christians	17	659
Oriental churches	14	327
	19	240
Orthodox Church of Austria-Hungary	6	605
Orthodox Church of Bulgaria	6	605

Sects and Churches, Christian — cont'd	Vol.	Page
Orthodox Church of Montenegro	6	605
Orthodox Church of Rumania	6	605
Orthodox Church of Russia	6	604
Orthodox Church, Greek	6	604
Hellenic	6	604
Serbian	6	605
Syrian	6	605
Paulicians	21	415
Pelagianism	21	480
Petrobrusians	21	678
Plymouth Brethren	6	607
	22	264
four divisions of	22	264
Presbyterian churches in Canada	22	539
Presbyterian churches in Europe	22	543
Presbyterian Church	14	82
Colored Cumberland	22	536
Cumberland	22	536
doctrines of	22	541
History of	22	541
in the United States	22	533
in the United States (Southern)	22	536
Irish	15	351
	22	543
of England	22	542
of North America, United	22	537
of Scotland, United	22	542
United	13	231
Presbyterian system	22	539
Presbyterianism	13	231
	22	540
Presbyteries, statistics	22	537
Protestant conception of the Christian ministry	22	688
Protestant Episcopal Church	12	164
	14	327
	22	680
high church	22	683
history, 19th century	22	682
low church	22	683
organization	22	681
parties	22	683
Protestantism	22	685
	22	688
distinctive characteristics of	22	688
present-day	22	688
Protestants, French	23	302
Quakers	6	606
	11	56
	27	470
Rationalists	23	360
Rebaptizers	23	264
Recreative Religionists	23	275
Reformed Catholic Church	23	304
Reformed Church in America	23	305
Reformed Church in America, The First	23	306
Reformed Church, Christian	22	538
in South Africa	23	308
Spanish	25	359
in the United States	23	308
in the United States (German Reformed)	22	538
Reformed Churches, Alliance of	1	418

Sects and Churches, Christian — cont'd	Vol.	Page
Reformed and Presbyterian churches	6	605
Reformed Episcopal Church	23	309
Reformed Presbyterian Church, North America	22	538
Religious sects	23	355
Reorganized Church of Jesus Christ of Latter-Day Saints	23	382
Restitutionists	23	419
River Brethren	23	546
Russian Church	24	37
	24	39
Russian religion	24	37
Sabbatarians	24	78
Sabellianism	14	737
	24	80
Sacramentarians	24	90
Salvation Army	6	607
	23	360
	24	215
England	4	253
India	4	253
United States	4	253
Sandemanian Sect	15	130
Sandemanians	12	681
	24	253
Scottish Episcopal Church	3	135
Secession Church	24	500
Separatists	24	574
England	24	574
Ireland	24	574
Shakers	7	418
	24	642
Skoptsy	25	77
Skoptzi	25	77
Social Brethern Church	25	1 8
Socinians	14	738
	25	207
	27	293
Supralapsarians	26	52
Swedenborgians	23	360
Taborites	26	200
Theosophists	23	360
Traskites	27	17
Ultramontanists	23	360
	27	265
Unitarian Association	27	297
Unitarian Sect	15	679
Unitarianism	27	292
	27	294
	27	295
	27	297
Unitarians	6	607
	14	738
Unitas Fratrum	19	440
United Brethren	27	302
United Brethren of Christ	27	302
United Christians of Saint Thomas	27	303
United Copts	27	303
Unity of Brethren	19	229
Universalism	27	569
Universalist Church	6	607
Volunteers of America	4	251
	4	253
	23	361
	28	183
Waldenses	21	415
	28	221
Wesleyanism	13	293
	29	196
White Brethren	29	270
Wilburites	29	301
Zealots	29	690

Sects and Churches, Christian — cont'd	Vol.	Page
Zoar, Separatists Society of	29	717
Zwinglianism	13	296
	29	742

Sects and Churches, Non-Christian

	Vol.	Page
Abrahamites	1	48
As-Sanusi, Brotherhood of	19	301
Babism	3	5
	19	301
	19	306
	21	615
Bahism	19	306
Behaism	19	306
Brahma	14	196
Buddhism	4	673
	11	135
	15	665
	15	675
	27	713
Zen	15	679
Confucianism	7	497
	15	675
Dervish	10	724
Eleatics	10	60
Elcesaites	10	56
Elkesaites	10	56
Essenes	10	514
Fakir	10	724
Fatimites	19	300
Free Spirit, Brethren of the	12	44
Gypsy religion	13	594
Hadis	13	609
Hanafites	19	301
Hanbalites	19	301
Hinduism	14	194
Trinity of	14	196
Ibadites	19	301
India, religions of	15	11
Islam	15	412
	19	302
	21	615
Jainism	15	597
Judaism	16	62
Judaism, Science of	14	72
Judaizers	16	229
Kagura	24	716
Karmathians	16	310
Kojiki	24	716
Kookas	16	520
Kukas	16	520
Kurozumi	24	716
Lamaism	16	664
Mahatma	18	135
Mahayana	18	135
Malikites	19	301
Mito, doctrine of	19	271
Mohammedanism	19	302
rise of	24	618
spread of	24	619
Mohammedan culture	24	619
Mohammedan religion	11	698
Mohammedan sects	19	300
Mokanna	19	306
Murjiites	19	301
Mu 'tazilites	19	301
	19	306
Nichiren	20	311
Nossairians	20	456
Obarsi	24	716
Ommiads	20	683
	24	619
Ormazd	21	2
Parsees	21	347
Pashkovski Sect	21	366
Phœnicia religion	21	787
Prajña Paramitā	22	508

Sects and Churches, Non-Christian—contd

	Vol.	Page
Qadarites	19	301
Saadhs	24	100
Sabæans	24	77
Sadducees	24	99
Sadhs	24	100
Saivas	24	174
Sakta	24	175
Sethites	24	607
Shaflites	19	301
Shiah	24	709
Shiites	16	95
	19	880
	24	709
Shinto	15	675
	15	679
	24	715
Siddhartha	24	785
Sikhs	24	807
Siva	25	48
Softas	25	224
Stupa	26	700
Sufis	19	306
Sufism	25	793
Sukhavati	25	807
Sunni	26	38
Sunnites	19	300
	19	305
	21	615
	26	38
Taoism	26	251
Tope	26	700
great	26	700
Wahabees	28	212
Wahabis	28	212
Wahabites	19	305
	28	212
Yengishiki	24	716
Zabians	29	679
Zionism	16	67
Zoroastrianism	29	732
resemblance of, to Christianity	29	733
resemblance of, to Judaism	29	733

History-Christian

	Vol.	Page
Abbey	1	13
Abraxas	1	50
Abraxax	1	50
Acacians	1	60
Act of Conformity	13	183
Act of Uniformity	1	106
	13	208
Adamites	1	118
	4	471
Adiaphorists	1	138
Adiaphorites	1	138
Adoptian Controversy, The	1	150
Adrian, Bull of	1	154
Advertisements of Elizabeth	1	166
	13	297
Aerians	1	179
African Missions, Society of the	20	754
Agape	1	230
Agapemone	1	230
Age of the Gospel	16	149
Age of law	16	149
Age of the spirit	16	149
Albigenses	1	337
Alexandrian Fathers	18	187
Alien Priories	1	401
Allenites	1	414
Alogi	1	434
American Bible Society	1	501
American Tract Society	1	566
	26	740

History-Christian — cont'd

	Vol.	Page
Anglican Communion. Lambeth conferences of the	14	372
Angel of the Schools	2	113
Angelic Doctor	2	113
	9	217
Anglo-Chinese negotiations	13	583
Anomœan-Arian Sect	1	204
Antipope	2	36
Apollinarians	2	63
Apostle of the English	2	69
Apostle of the French	2	69
Apostle of the Gentiles	2	69
Apostle of Germany	2	69
Apostle of the Highlanders	2	69
Apostle to the Indians	2	69
Apostle of the Indies	2	69
	5	694
Apostle of Infidelity	2	69
Apostle of Ireland	2	69
Apostle of Kent	2	69
Apostle to the Scots	2	69
Apostle spoons	2	69
	25	18
Apostleship of Prayer	2	70
	24	94
Apostolic brethren	2	70
Apostolic Church	2	70
Apostolic Fathers	2	70
Apostolic majesty	2	70
Apostolic palaces	15	474
Apostolic party	2	70
Apostolici	2	70
Apostolics	2	70
Aquarians	2	105
Archbishops of Westminster	13	301
Articles, Gallican	21	235
organic	11	633
Six	2	360
Thirty-nine	2	361
Ascetics	2	379
Asia, religion in	2	394
Assassins	2	412
Assembly of Atheists	11	632
Assemblée Constituante	11	635
Assembly of Divines	2	421
Assermentés	11	632
Associate Synod of the Secession Church	13	231
Associations cultuelles	11	640
Audians	2	534
Augsburg Confession	2	541
	17	753
	17	762
Auricular confession	21	497
	23	540
	23	545
Author of All Truth	2	115
Auto-Da-Fe	2	640
Australia, religion in	2	597
Austria-Hungary, religion in	2	624
Bagimont's roll	3	41
Bangorian Controversy	3	145
	14	300
Baphomet	3	218
Baptism of the Dead	3	219
Barlaamites	3	257
Bartholomew, Saint, massacre of	3	291
Basel, confession of	3	304
Basel, council of	3	304
Belgic Confession	3	455
Bell Tower	22	115
Bereans	3	539
Bible class	26	34
Bible moths	29	196

History-Christian — cont'd

	Vol.	Page
Bishop of Crete, first	2	65
Black Rood of Scotland	4	38
Blood baptism	4	110
Blood, Council of	4	108
Bloody statute	2	360
Bogomiles	4	155
Bolivia, religion in	4	186
Bolton Abbey	4	197
Bordelumians	4	266
Borgia family	4	270
	11	193
Brandenburg, confession of	4	411
Brazen Sea	4	423
Brethren of the Holy Trinity	4	471
Broad Church Movement	4	567
	13	295
Broad Church Party	17	97
Bull, Papal	5	8
Bull Unam Sanctam	21	255
Burgher	5	39
Cahenslyism	5	145
Calixtines	3	304
	5	223
Calvary	5	236
	13	38
Cambridge platform	5	253
Cambridge platonists	5	253
	17	97
Cambridge school	13	295
Camisards	5	266
	12	73
Campanile	5	275
	22	115
Canonical associations	11	634
Canons of convocation	13	298
Canons of Dordrecht	6	612
Canossa	5	526
	13	453
Caputiati	5	575
Carnival	5	640
Castel Gandolfo, Villa of	15	474
Casuistry	6	623
Catacombs	6	30
	9	528
Catechetical schools	6	47
Catechism, Racovian	27	293
Catechumen	6	48
Cathari	6	51
Cathedral of Notre Dame, Paris	6	58
	21	306
Catholic Church and Science	6	76
Catholic Church in the United States	6	82
Catholic emancipation	6	92
	13	301
	14	335
Catholic reform	15	446
Catholics, English Roman	13	300
Celtic Church	6	177
Cerdonians	6	223
Chair of Saint Peter	6	249
Chalcedon	6	249
Champion of the Faith and Defender of the Holy See	14	327
Chapel Royal	6	295
Characteristics of the prophets	22	665
Christ	11	258
Christian Era	6	611
Christian facts, origin of	5	641
Christian league	15	449
Christian mysticism	19	667
history of	19	669

History-Christian — cont'd	Vol.	Page
Christian padres	15	679
Christian symbolism	26	160
Christianity	6	616
	14	273
advent of	14	427
and Judaism	6	618
Christianity, progress of, in Japan	15	681
Church	6	654
	14	275
Fathers	6	655
	14	216
history	6	656
and the Nation (Great Britain)	13	296
property of the	13	294
of Saint Peter	11	557
of Saint Mary Major	11	557
and State	6	657
and State in France	11	631
and State in the United States	6	660
States	6	660
statistics	24	39
wealth of the	14	277
Circelliones	6	694
Circumcellions	6	694
City of Churches	6	714
Civil constitution of the clergy	11	632
Civilization	7	26
Clapham Sect	7	32
Clergy Reserves	5	419
Communism	7	417
Concilium in Trullo	7	462
Concilium Quinisextum	7	462
Concordat	7	464
of Aschaffenburg	28	81
of Vienna	28	81
of Worms (1122)	12	546
	21	254
Congregatio de Propaganda Fide	13	456
Congregation de Propaganda Fide	19	239
Congress of Religions	7	509
Connecticut, religion in	7	529
Constitutionals	11	632
Controversial Period, chief products of the	14	225
Conventicle Act of 1593	13	298
Conventicle and Five-mile acts	13	299
Convocation of Canterbury	3	656
Convulsionaries	7	616
Convulsionists	7	616
Corporation Act of 1661	13	299
Corporations, history of	8	2
Corpus Christi, festival of	8	17
Corpus doctrinæ	8	17
Corvey	8	29
Council of Antioch	13	449
Council of Blood	8	97
Council of Chalcedon	6	609
	17	292
	21	252
Council of Constance	17	659
general	7	552
Council of Constantinople, first	8	96
Council of Elvira	14	705
Council of Frankfort	12	6
Council of the Lateran, fourth	15	147
Council of Nice, second	14	705
Council of Toulouse	15	147

History-Christian — cont'd	Vol.	Page
Council of Trent	6	610
	8	96
	8	102
	13	103
	13	445
	13	527
	14	712
	15	486
	16	37
	22	300
	27	43
first dogmatic decision of the	27	43
first period	27	43
second period	27	43
third period	27	44
Council, Tridentine	2	516
Trullan	5	515
	8	240
Council in Trullo	23	95
Council of the Vatican	27	698
Council of Verona	15	147
Councils of Constantinople, general	7	561
Councils, Ecumenical	8	96
Lateran	16	762
Councils of Lyons	17	783
Councils of Nicæa or Nice	20	302
Covenant of Grace	11	84
Covenant of Liberty of Worship	8	129
Covenanters	8	129
Cranganore	8	158
Cromwell's ecclesiastical policy	13	298
Crucifixion	8	253
	11	258
	16	45
Crusade, Children's	8	257
Crusades	8	255
	14	276
	19	238
	22	85
	27	214
Crypto-Calvinists	8	266
Culdees	8	294
Culte Decadaire	11	632
Cultuelles	11	634
Cumberland Presbyterian Church	10	616
Cutty stool	8	345
Dancing mania	11	554
Davidists	8	503
Decian persecution	21	497
Declaration of the Gallican clergy (1682)	22	140
Declaration of Indulgence of 1672	8	564
	13	298
Decree of the Council of Trent	28	198
Decretals	8	572
Defender of the Faith	8	586
Diet of Spires	17	761
Diet of Worms	13	181
Disciplina Arcani	9	152
Disputations, historic	9	168
Disruption	9	169
Doctor Angelicus	9	217
Doctor of the Church	9	217
Doctrinal teaching	13	295
Dome of the Rock	9	240
Dominica Quinquagesimæ	23	96
Dominica Septuagesimæ	23	96
Dominica Sexagesimæ	23	96
Donation of Constantine	9	256
Donatists	9	256
Dort, Synod of	9	269

History-Christian — cont'd	Vol.	Page
Doshisha Theological School	15	681
Dositheans	9	270
Dudley's milk	13	182
Dunce	9	401
Eagle of divines	2	113
Early Christian doctrine schools	26	34
Early Christians	14	736
Early Church	14	736
	17	659
Ebelians	9	519
Ebionites	9	520
Ecclesia	9	523
Ecclesiastical Commissioners for England	9	537
Ecclesiastical patronage	21	406
Ecclesiastical reforms	24	40
Economic conditions	24	40
Ecumenical Conference	9	575
Edict of Nantes	9	584
	17	675
	17	698
Education	13	301
Eighth century	10	38
Einsiedeln	10	41
Ephesus, Council of	10	414
Erastians	10	467
Election decree	13	453
Elvira Council or Synod	10	268
Emancipation, Roman Catholic	10	270
	23	641
Emmanuel movement	10	296
Empire and Papacy	14	276
Energumen	10	333
Engedi	10	334
English nonconformity	13	297
Epiphany	27	218
Episcopalianism	13	231
Episcopal Church missions	22	685
Episcopal Church Christian unity	22	684
Established Church	13	182
Euphrates College, Harpoot, Turkey	12	335
Eutychianism	10	587
Evangelican movement	13	295
Evangelical Union	10	590
	14	103
Exultet	21	370
Fabiola	11	559
Faculties, Court of	10	706
Fair Havens	10	714
Falk laws	22	140
False decretals	21	252
Familists	11	2
Farfa Abbey	11	19
Fathers, Apostolic	11	55
of the Church	11	55
Fenced cities	11	113
Feretory	11	122
Ferrara-Florence, Council of	11	136
Fifth Doctor of the Church	2	113
First fruits	11	262
First Mass in America	4	165
First priest to visit the New World	4	164
Firstlings	11	262
Fisher King	13	108
Fishers of men	11	258
Fools, Feast of	11	454
Foreign missions, cradle of	14	372
results of	19	232
Formula Concordiæ	17	659

History-Christian — cont'd Vol. Page

Fortress-Monastery of Rilo 23 477
Franciscan Mission..... 24 231
Francescanism 15 487
Frankford Land Company 12 6
Fraternities 12 24
Free Church..... 12 42
Association 12 42
Freie Gemeinden..... 3 123
French prophets..... 12 73
Fulda, Abbey of..... 12 152
Gall, Abbey of Saint... 12 240
Gallican Confession ... 12 246
Gallicanism 12 246
Gammon Theological Seminary 12 270
Garrett Biblical Institute 12 297
General Council, sixth.. 14 705
General Synod, Lutheran Church 17 758
General Theological Seminary 12 377
Geneva catechisms..... 12 395
Geneva, Order of..... 16 496
Gesellenvereine 12 625
Gifford lectures..... 12 646
God's truce..... 12 748
Golgotha 13 38
Gothic Church of Santa Maria della Spina.... 22 115
Grail, Holy..... 13 108
Great Awakening..... 13 169
Great Gothic Cathedral. 24 623
Great Schism..... 11 555
Guibord Case 13 531
Half-way Covenant..... 13 636
Hampton Court Conference 13 298
13 669
Haystack prayer-meeting 17 157
Heidelberg Catechism... 12 209
14 69
Helvetic Confession..... 14 87
Herodotus of the Franks, The 13 450
Historia Francorum ... 13 450
History, Christian Philosophy of..... 14 215
its rise and development 14 248
of the past, Christian synthesis of the 14 213
Holy City..... 27 214
Holy Club 18 721
29 196
Holy Face of Edessa.. 1 40
Holy Land..... 14 326
Holy Sepulchre..... 14 330
Church of 14 330
Holy War 14 330
Hopkinsian controversy. 14 373
Huguenots 14 482
17 674
in America..... 14 483
Hundred Gravamina.... 13 181
Hungary, religion in... 14 503
Huntingdon's Connection, Countess of..... 14 516
Hussites 3 304
14 527
Iconoclasts 14 654
14 705
Iconolatræ 14 654
Iconostasis 14 654
Imagebreakers 14 654
Image Worshippers.... 14 654

History-Christian — cont'd Vol. Page

Indians, Catholic education of the..... 15 60
Infralapsarianism 15 125
Innocents, Feast of Holy 15 145
Inquisition 14 277
15 147
Invention of the Cross.. 15 281
Investiture struggle 14 275
Ireland, religion in.... 13 193
13 235
15 316
Irish Church 15 329
Act of 1869..... 13 236
Iron Virgin..... 2 54
Italy, Protestantism in. 15 487
religion in..... 15 485
Iturea 15 560
Jacob's Well..... 15 592
Jael 15 594
Jansenists 16 39
Japan, Christianity in.. 15 675
Jerry McAuley Cremorne Mission 18 14
Jerusalem Chamber 16 32
Jerusalem, Councils or Synods of..... 16 31
Creed 16 32
Jesuit Fathers, arrival in Japan..... 15 679
Jesuit missionaries..... 19 239
Jesus Christ..... 16 41
early manhood of... 16 42
birth of 16 41
logia of..... 16 45
the ministry of..... 16 42
parentage of 16 41
popularity of..... 16 43
Joan, Pope..... 16 149
John Street Methodist Church 18 723
Jubilate 16 228
Jubilee 16 228
Julian calendar 5 191
13 455
Keswick movement 16 383
Kikuyu controversy ... 16 410
King's Chapel, Boston.. 16 444
Kirishitan Bateren..... 15 679
Korvei 8 29
Labarum 16 588
Labor Church..... 16 592
Lady Chapel 16 644
Lady Day..... 16 644
Lætare Sunday..... 16 647
Laicisation 11 636
Lambeth Articles..... 16 674
Lambeth Conference.... 16 675
Lane Theological Seminary 16 715
Lanterns, Feast of..... 16 737
Laodicea, Council or Synod of..... 16 739
Last Supper 16 44
Lateran 11 557
16 762
Latitudinarian 17 96
La Trappe..... 16 584
Layman's missionary movement 17 157
Leaning Tower..... 22 115
Lectisternium 17 213
Leipzig, Colloquy of.... 17 271
Interim 15 216
Libertines 17 347
Little Church Around the Corner 14 442
Livingstonia Mission... 17 544
Lollardism 17 615
Lollards 17 615
Lourdes 17 691

History-Christian — cont'd Vol. Page

Loreto, England 22 85
France 22 85
Spain 22 85
Lustration 17 751
Lutheran and Anglican See of Jerusalem..... 12 742
Lutheran Protestantism 17 753
Magdeburg centuries ... 18 114
Magi 18 115
Man, Christian anthropology 18 181
Manual acts..... 18 240
Mary 18 345
Massacre of the Innocents 18 413
May laws..... 12 239
22 140
Medical Mission..... 19 232
Meletian Schism..... 13 449
18 604
Mellifluous doctor..... 3 568
Men and religion forward movement 25 116
29 659
Messiah 16 44
18 692
Methodism in America.. 18 723
Methodism in Australasia 18 723
Methodist Book Concern 18 727
26 739
Millenary Petition..... 13 298
19 116
Miracle plays..... 19 217
Missionary enterprises.. 22 688
Missions, Protestant
Foreign 19 228
Protestant Home... 19 233
Roman Catholic Church, Home and Foreign 19 237
Modern Sunday school, founder of 4 283
Modern views of Incarnation 14 738
Modernism 19 288
Monachism 19 340
Monasticism 19 340
19 669
Monophysitism 14 737
19 365
Monotheletism 14 738
19 369
Monothelite heresy..... 14 359
Monte Cassino 5 704
13 451
Mormon Tabernacle.... 24 204
Morton's Fork 13 182
Mother of Jesus..... 18 345
Nantes, Edict of..... 9 584
14 482
National Council of the Evangelical Free Churches 13 299
Nazareth 20 19
Nestorian Monument.... 20 86
Netherlands, religious conditions 20 94
New Light and Old Light 20 146
New Monarchy..... 13 182
Nicene Creed 6 609
20 311
Nonconformist 20 394
Non-intrusionists 20 394
Non-jurors Schism..... 13 293
Non Possumus..... 20 394
Notre Dame, Cathedral of 21 306
23 719
Novatian movement 21 497

History-Christian — cont'd

	Vol.	Page
Novatianism	20	467
Occasional Conformity Act of 1711	13	299
Œcumenical	20	590
Council, First	14	737
Oracles of the Lord, exposition of	10	661
Oratory at Brompton	13	301
Oxford Movement	2	67
	10	384
	13	293
	13	301
	21	73
	25	174
Pagans	21	96
Palestine	21	197
Palm Sunday	21	210
Papacy	14	277
	21	251
Papacy and the government	15	472
Parish schools, Roman Catholic	21	322
Particularism	13	181
Pascha Clausum	23	96
Passing-bell	21	369
Passion	21	369
music	21	370
Play	21	370
Week	21	371
Paternoster	21	389
Patristic historiography	14	213
Patristic Period, historical method in	14	215
systematic ecclesiastical history in	14	216
Peace of Augsburg	18	184
	21	441
	23	302
Peace of Nuremberg	21	441
Peace of God	21	441
Peace of Passau	21	441
Peace, religious	21	440
Peace of Westphalia	21	441
Peopling of the United States	27	340
Perth, the Five Articles	21	641
Peter's Pence	21	664
Petrine primacy	21	252
Penal acts	13	298
Pia Desideria	22	77
Picards	4	471
Pietism	22	77
	25	395
Pious Fund of California	22	106
Pious Fund, Mexico	22	106
United States	22	106
Pisa, Council of	22	116
Pius IV, Creed of	22	138
Plymouth Church	22	264
Polish Franciscans in America	22	305
Politico-religious system of France	11	634
Pontifical inquisitors	15	147
Pontificate of Gregory	21	273
Popes, list of	22	356
temporal power of the	14	277
Port Royal	22	383
Pragmatic sanction	21	254
	22	502
Presbyterian Society of Hempstead	14	92
Presbytery of Relief	13	231
Prêtres assermentés	11	635
Primitive Christianity	20	175
Private confession	21	497
Procession, religious	22	628

History-Christian — cont'd

	Vol.	Page
Protestantism and politics, connection between	22	686
Protestant Episcopal Church, Church catechism	22	683
Church of the Confederacy	22	684
controversy	22	684
Protestant movement	22	686
Protestant Reformation in England	23	309
Protestantism, original	26	516
Provincial letters	22	709
Public rites, religious	23	540
Purification of the Blessed Virgin Mary, Feast of	23	28
Puritanism	23	29
early	23	29
Puritans	23	304
	27	469
Quadragesima	23	52
	23	96
Quakers' oaths	13	299
Quasimodo	23	66
Queen Anne's Bounty	11	262
	23	78
Quinisext Council	23	95
Quinquagesima	23	96
Ralliement	11	635
Ratisbon Interim	15	216
Red Mass	21	307
Reform Bill of 1832	13	299
	23	301
Reform, 16th century	23	305
Reformation	14	280
	17	753
	23	301
	23	448
counter	8	102
	13	184
	14	280
	19	440
German	19	440
Lutheran	23	304
effect of the, upon the subject matter and the interpretation of history	14	224
in England	13	181
Protestant	14	224
Reformed Church in France	8	114
Refractaires	11	635
Refractories	11	632
Refuge, cities of	23	318
Refugees	23	318
Regium Donum	23	324
Religion, Australia	23	82
Brazil	4	432
Switzerland	26	147
Scotland	13	231
	23	82
state control of	22	686
Ten-days	11	632
Sweden	26	117
Religious calendar	24	37
Religious conditions, Canada	5	390
Religious wars	14	280
Resolutioners	23	415
Revivalists, American	23	448
Revivals, first half of the 19th century	23	448
Revolution of 1688	13	298
Revolutionary Period	24	39
Ritrovamento	15	281
Robber Synod	10	587
	17	292

History-Christian — cont'd

	Vol.	Page
Robert College, Constantinople	12	335
	23	566
Rome, Œcumenical Councils of	23	673
Rosary of the Blessed Virgin Mary	23	690
Rosary Sunday	23	691
Russian Christianity	24	37
Russian Cossacks	24	60
Russian Metropolitans	24	37
Russian Patriarchate	24	38
	24	39
Sabbatarian controversy	24	78
Sacramentals	24	90
Sacramentarians	24	90
	29	196
Sacraments	24	91
Sacred Heart of Jesus, Feast of	24	94
Sacred Heart, League of	24	94
Saint Bernard, Hospice of	24	123
Saint Denis Abbey	24	127
Saint Peter's	23	658
	23	659
Saint Sophia	24	169
	24	577
Sainte Chapelle Church, Paris	21	307
	24	172
Saints' days	24	173
Samaria	24	218
Sanctuary, privilege of	24	248
Santiago de Compostella Cathedral	24	284
Savoy Conference	24	331
Savoy Declaration	24	332
Saybrook platform	24	344
Schmalkaldic League	24	381
Scotch Sabbath schools	26	34
Scotland, religion in	24	432
Secret rites, religious	23	540
See of Rome	11	262
Separation of Church and State in France	11	634
Septuagesima	23	96
Sunday	24	575
Seraphic doctor	4	208
Serbia, Religion in	24	580
Seven Churches of Asia	24	608
Sexagesima	23	96
Sunday	24	629
Shaker meeting house, first	24	642
Shaker settlement, first	24	642
Sheol	14	717
	24	696
Shiloh	24	710
Sicilian Vespers	18	336
	24	777
Sistine Chapel	11	193
	27	697
Six-stringed whip	2	360
Sixteenth century	25	56
Society for the Propagation of the Faith	13	516
Solemn League and Covenant	25	239
Sonderbund	25	254
Sorbonne	25	263
Spain, religion in	25	328
Spiritual regulation	24	38
Sponsors	25	431
Star of Bethlehem	25	489
Stations	25	528
Stations of the Cross	25	528
Stigmatization	25	647
Sublapsarianism	15	125
Succession, Apostolic	25	781

History-Christian — cont'd

	Vol.	Page
Sunday schools	26	34
Supplicants	26	51
Sustentation fund	26	103
Syncretistic controversy	26	170
Synod of Antioch	13	449
Synod of Dort	23	306
Synod of Emden	23	306
Synod of Wesel	23	306
Synod of Whitby	15	330
Syria, Religion in	26	188
Syrian churches	26	192
Temporal power (of the Pope)	26	409
Test Act of 1673	13	299
Test and Corporation Acts, repeal of	13	299
Teutonic Knights	26	457
Theophilanthropism	11	632
Thomism	26	575
Toleration	26	675
Act of 1689	13	298
Tongues, gift of	26	686
Tonsure	26	689
Torture, Inquisition	26	714
Tractarian movement	23	309
Tractarianism	26	740
Tracts for the Times	13	295
	26	747
Transfiguration, Feast of	27	4
Treaty of Nuremberg	21	440
Treaty of Paris in 1763	23	76
Trial of Christ for blasphemy	16	44
Tricesima	23	96
Trine immersion	27	66
Trinity House, Corporation of the	27	69
Trinity Church	23	493
Trinity Sunday	27	69
Tritheism	27	79
Truce of God	27	102
Tullahassee Mission	23	574
Tumacacori Mission National Monument	27	139
Twelfth day	27	218
Twelve Apostles	16	43
Ultramontanism	27	265
Unction	27	272
Extreme	27	272
Uniformity, Act of	27	283
Unigenitus	27	285
Unitarian movement in America	4	295
United States Christian Commission	27	550
Universal humanity	20	169
University Tests Act	13	303
Vatican	11	557
	23	658
	27	697
Council	27	698
Library	11	193
	23	661
	27	697
archives of the	15	487
Vesica Piscis	28	41
Via Dolorosa	28	55
Vicesima	23	96
Vigil	28	84
Visible Church	28	135
Visitation	28	141
of the Sick	28	141
of the Virgin Mary	28	141
Vitalians	2	64
Voluntary controversy	28	179
Voluntary system, The	28	179
Voluntaryism	28	179
Wafer	28	208
Waldenses	28	221
Wars of the Investiture	12	546

History-Christian — cont'd

	Vol.	Page
Way of the Cross	28	55
Wee Frees	12	42
Weeping Cross	29	159
Wesleyan Reform Union	18	723
Wesleyan revivals	2	66
Westminister Assembly of Divines	29	223
Westminster Confession	7	495
	12	299
White clergy	24	39
Whitsunday	29	285
Winchester profession of faith	27	571
Winged lion	29	396
Wise Men of the East	29	428
Woman's work	19	231
World's Parliament of Religions	7	509
Worms, Concordat of	14	328
Zenana Mission	29	697

History — Non-Christian

	Vol.	Page
Anglo-Jewish Association	13	304
Anti-Semitism	16	98
Aphrodite	13	415
Babylonia, religion of	3	7
Apollo, Delphic	13	415
Arabian Gulf	23	284
Ares	13	415
Arya Somaj	2	372
	14	197
Basilica of Alexandria	16	110
Bevis Marks Synagogue	13	303
Bhagats	14	198
Blood accusation	16	99
Blood prohibition	16	121
Brahma	4	393
	28	134
Brahmo Samaj	14	197
Breastplate of the High Priest	16	51
Buddhism	4	673
	14	196
Buddhistic Patriotic Union	15	681
Cabala	16	66
	16	92
Calendar, Jewish	16	59
Canaan	5	288
	21	197
Canaanite Semitic nations	24	554
Chittim	16	467
Chovevei Zion	16	101
Church of the Holy Sepulchre	16	30
Communal life	13	303
Congregation, Spanish and Portuguese	13	303
Delos	8	625
	13	414
Demeter	8	636
	13	415
Dharma	14	196
Dionysus	9	137
	13	415
Dome of the Rock	9	240
	16	30
Eileithyia	13	415
Eleusinian mysteries	10	224
	13	414
Eleusinian mysteries	13	414
	19	664
	23	540
Emanu El Sisterhood of Personal Service	13	81
Endor	10	323

History — Non-Christian — cont'd

	Vol.	Page
Eparchy	10	411
Ergane	13	414
Erinyes	13	415
Ethiopia	10	546
Ezion-Geber	10	688
Fast of Ramadan, The	23	199
Fat prohibition	16	121
Feast of the Barley	24	635
Festival, Panathenæic	13	414
of the Weeks	24	635
Flag of the Prophet	11	310
Flamen	11	329
Gad, Tribe	12	215
Galilee	12	237
Sea of	12	237
Galli	12	245
Gangotri	12	273
Gath	12	337
Gebal	12	351
Golden calf	13	26
Goliath	13	39
Goshen	13	69
Guru	13	576
Hasmonean dynasty	18	17
Hegira	10	437
	14	69
	19	293
Hejra	14	69
Hephaestus	13	415
	14	110
Hep-Hep	16	67
Heroes, romance	14	140
Hestia	13	415
	28	44
Heth, children of	14	299
Hijra	14	69
Hindu Trinity	27	66
Hinnom, Valley of	14	199
Hittites	14	299
Holy City	16	29
Holy Land, The	14	326
	21	197
Houris	14	444
Indians, American, religion of	15	51
	15	59
Israel, Kingdom of	16	65
Israel, Land of	21	197
Jabal	16	228
Jaffa gate	15	595
	16	30
Jagannath	15	595
Japan, religions of	15	675
Jehad	16	146
Jehovist	16	9
Jehu	16	9
Jericho	16	26
Jerusalem	16	29
Jew, eternal	16	67
wandering	16	67
Jewish War, The	16	61
Jews' Emancipation Bill	16	106
Jews and Judaism	16	65
Jews, exchequer of	13	302
Free School	13	304
in Austria	16	107
in Belgium	16	108
in Denmark	16	108
in England	16	107
in France	16	106
in Germany	16	107
in Holland	16	106
in Hungary	16	108
in Italy	16	108
in Rumania	16	108
in Russia	16	108
Jihad	16	146
Joseph's ring	16	51
Jubal	16	228
Judah, Kingdom of	16	59

History — Non-Christian — cont'd	Vol.	Page
Judaism	14	273
	16	62
English	13	302
age of exile and oppression	16	63
age of national independence	16	62
history of	16	62
modern age	16	63
Patriarchal Age	16	62
Period of the Geonim	16	72
pre-Exilic times	16	64
principles of	16	62
reformed	16	113
Talmudic period	16	71
Judea	21	197
Juggernaut	15	595
Ka	16	271
Chapels	16	272
development of	16	273
guardian	16	272
Royal	16	272
Kaaba	16	273
Kadesh-Barnea	16	275
Kadmonites	16	275
Kalpa Sutra	16	285
Karaites	16	73
	16	95
	16	97
Kasher	16	531
Kenites	16	353
Keren-Happuch	16	376
Khalifa	16	389
Khnemu-hetep	16	272
Kittim	16	467
Kobiada	25	98
Kosher	16	531
Lamaism, general influence of	16	665
Lassa	17	342
Law, Mountain of the	25	31
Levites	17	330
Lex talionis	16	96
Lhasa	17	342
Lost Ten Tribes	17	668
Machpelah, Cave of	18	61
Maccabees	18	17
Mahamad	13	303
Mahmet	14	140
Mahmetry	14	140
Mahmout	14	140
Mahmoutry	14	140
Makka	18	497
Manasseh, the Older	18	195
Mandæans	18	204
Mani	18	214
Maraboots	18	262
Marabouts	18	262
Marabuts	18	262
Ma't	18	421
Matzoth	18	446
Matronalia	18	438
May laws	16	144
Mecca	18	497
Meccâwi	18	497
Melchizedek	18	603
Mene	18	628
Mephistopheles	18	653
Mercy, Divine	14	197
Messiahs	16	101
Metempsychosis	14	197
	18	712
Mishnah	16	65
	19	227
Moriah	19	458
Mother of Cities	18	497
	19	512
Muezzin	19	548
Mysteries	19	663
Samothracian	19	664
Nabal	19	676
Naboth	19	677
Nairs	19	684
National Cult Department, Japanese	15	681
Nazarite	20	20
Nebo	20	23
Neoplatonism	14	215
Nuu, Nu	20	481
Nun	20	481
Om	20	676
Mani Padme Hum	20	676
Ommiad dynasty	13	749
	20	683
Omophagic Rites, or Omophagia	20	684
Onias	20	690
Ophites	20	706
Ormuzd	21	2
Passover, Jewish	17	658
	21	371
Paynims	14	140
Pharisees	21	707
Pilgrimages of Islamites to Mecca	22	85
Pilgrimages of the Jews	22	85
Piyuts	16	72
Prayer rugs	22	516
Precepts, Noachian	20	381
Presbyter Judæorum	13	303
Pseudo-Messiahs	16	66
Puranas	14	196
	24	271
Purdah system	14	197
Purim	23	29
Rachel	23	111
Rammohun Roy	23	208
Rechabites	23	269
Red Sea	23	284
Rehoboam	23	326
Religion	18	762
	23	342
and sociology, Egyptian	10	19
Greek	13	412
Homeric	12	207
pre-historic, Japanese	15	676
Religious Union, Japanese	15	682
Right, doctrine of	14	197
Ritual, symbolic	23	362
Rudra	14	196
Saadja Gaon	24	75
Saba	24	670
Semites	24	547
Sephardim	13	303
Seraphim	24	578
Shabuoth	24	635
Sharon	24	660
Sheba	24	670
Shekel of the Sanctuary	24	680
Shekinah	24	680
Sheol	24	696
Shewbread	24	708
Shibboleth	24	708
Sinai	25	31
Sinew which shrank	16	122
Siva	25	48
	28	134
Sodom and Gomorrah	25	224
Solomon's Temple	16	31
Soma	25	249
Sons of the Scripture	16	73
Sphinx	25	403
Susanna	26	102
Suttee	26	103
Symbolism	23	362
	26	159
Jewish	26	160
religious	23	361
Synagogue	16	109
at Alexandria	16	110
Tabor	26	200
Tabernacle	26	197
Tabernacles, Feast of	26	197
Taoism, Gods of	26	251
Tekel	18	628
Temple	26	408
of Apollo	13	414
Emanu-El	16	113
tax	24	680
Tenri	15	682
Teraphim	26	440
Thummin	27	593
Tihad	16	146
Tophet	26	701
Topheth	26	701
Totemism of the Indians	14	717
Transito, El	16	110
Trumpets, Feast of	27	107
Tubal-Cain	27	119
Tvashtar	27	212
Tvashtri	27	212
Tyre	27	245
Unleavened bread	27	582
Urim	27	593
Ur of the Chaldees	27	587
Uz	27	623
Valedictory pilgrimage	19	294
Vestal Virgins	28	44
Vishnu	14	196
	28	133
Weeks, Feast of	29	158
Worship, Greek	13	413
Yagnya	14	195
Yigdal	16	63
Yom Kippur	29	640
Zadok	29	680
Zedekiah	29	694
Zerubbabel	29	705
Zionism	16	101
Zionistic idea	13	81
Zionist schemes	13	304
Zionists, American Federation of	13	82

Literature, Religious, Christian

	Vol.	Page
Acta Martyrum	1	106
Acta Sanctorum	1	106
	14	244
Adam, Book of	1	116
Adam, Life of	16	228
Ad Regias Agni Dapes	14	600
Agnosticism and Religion	17	714
Allegory of Creation	20	168
Apocalypse of Moses	16	228
Apocrypha	2	60
	20	166
Apologia Pro Vita Sua	2	66
Barlaam and Josaphat	3	256
Bay Psalm Book	3	360
	14	598
Benedictine editions	18	451
Bestiaries	3	588
	26	161
Book of Enoch	16	231
Book of Mormon	19	463
Bridgewater Treatises	4	532
Centuries of Magdeburg	6	216
Christian year	6	615
City of God	6	716
Confession of Faith, Westminster	7	495
Confessions of Saint Augustine	7	495
Corpus Juris Canonici	8	572

Literature, Religious, Christian — cont'd	Vol.	Page
Dairyman's Daughter	23	499
De Civitate Dei	8	559
De Imitatione Christi	14	710
	16	350
Didache	9	91
Dies Iræ	9	100
	14	600
Diognetus, Epistle to	9	134
Discipline, Books of	9	152
Ejercicios Espirituales	25	421
Dream of Gerontius	9	320
Essays and reviews	10	513
Evangelistarion	10	590
Evidences of Christianity	10	604
Extra-canonical early Christian writings	20	166
Fool of Quality	11	454
Forma romana	20	167
Genius of Christianity	12	397
Gloria in Excelsis	12	719
Golden legend	13	27
Gospels, Apocryphal	13	69
Gospel of Apelles	13	70
Gospel of Bartholomew	13	70
Gospel of Basilides	13	70
Gospel of the Egyptians	13	70
Gospel of Eve	13	70
Gospel of Gamaliel	13	70
Gospel of Judas Iscariot	13	70
Gospel of Marcion	13	70
Gospel of Mary	13	70
Gospel of Matthias	13	70
Gospel of the Naassenes	13	70
Gospel of Nicodemus	13	70
Gospel of Perfection	13	70
Gospel of Peter	13	70
Gospel of Philip	13	70
Gospel of Pseudo-Matthew	13	70
Gospel of Thomas, the Israelite	13	70
Hagiographa	13	616
Heidelberg Catechism	14	69
Hermas, Shepherd of	14	130
History of Joseph, the Carpenter	13	70
Holy living and holy dying	14	326
Hours, Book of	14	444
Hymnody of England	14	597
Hymnody, French	14	597
Hymnology	14	596
Hymns, Latin	14	599
Hymn-writing, Scandinavian	14	597
Imitation of Christ	14	710
In Cœna Domini	14	731
Institutes of the Christian Religion	15	172
International Sunday school lessons	26	35
Jasher, Book of	15	750
Jerusalem the Golden	14	600
Jesu Dulcis Memoria	14	600
	16	86
John Inglesant	16	164
Journal of the Rev. John Wesley	16	217
Jubilees	16	228
Book of	16	228
Judica	16	235
Laudian manuscript	17	101
Lectionary	17	212
Life of Jesus	17	413
Little Genesis	16	228
Logia (Oracles)	13	72
Luther Catechism	15	172
Luther's hymn	17	762

Literature, Religious, Christian — cont'd	Vol.	Page
Magnalia Christi Americana	18	123
Magnificat	18	130
Manitou	18	225
Martyrology	18	344
Metropolitan	18	734
Mirror of perfection	19	222
Miserere	19	226
Moses in the Legends	19	500
Muratori, Canon of	19	603
Nasaraioi	20	174
New Essays: Observations Divine and Moral	20	122
New Jerusalem	20	146
No Cross, No Crown	21	513
Ordinal	20	769
Oxyrhyncus fragments	13	70
Pange Lingua Gloriosi Corporis Mysterium	14	600
	21	243
Pange Lingua Gloriosi Prælium Certaminis	21	244
Paschal chronicle	21	364
Passionate Pilgrim	21	371
Pastoral letters	21	374
Poem of the Soul	14	711
Protevangelion of James	13	70
Purchas judgment	23	25
Racovian Catechism	23	115
Reem	23	297
Saints' Everlasting Rest	24	173
Salve Regina	24	215
Shorter Catechism, Presbyterian	24	746
Spiritual exercises	16	37
	25	421
Stabat Mater	14	600
	25	468
Susanna, Book of	26	102
Syllabus	26	157
Tantum Ergo	26	250
Teaching of the Twelve Apostles	26	317
Te Deum	26	306
Te Deum Laudamus	26	306
Testament of Moses	16	228
Tetragrammaton	26	456
Thomas, Gospel of	26	575
Tracts for the Times	26	747
Veni Creator Spiritus	27	736
Vexilla Regis	14	600
	28	55

Literature — Non-Christian

Literature — Non-Christian — cont'd	Vol.	Page
Abhidhamma-Pitaka	22	119
Adi-Granth	1	138
Ahikar	1	270
Airyama prayer	12	205
Agnosticism and religion	17	714
Agui	14	194
Arda-i Virâf Nâmak	21	473
Atharva Veda	27	715
Atharva Veda Saṁhitā	27	717
Avesta	2	675
Beauty and the Beast	3	396
Bhagavadgita	3	607
	12	205
Bible of Zoroaster	2	675
Bismillah	4	19
Book of Adam's Daughters	16	228
Book of the Dead	4	230
	12	204
Book of Mormon	4	232
Book of the Righteous	16	70
Book of the Wars of the Lord	4	233
	16	70
Brahaspathi	14	194

Literature — Non-Christian — cont'd	Vol.	Page
Brahmana	27	712
Brahmanas	4	393
	27	716
Buddhist hymns	14	596
Bundahish	21	473
Dâdistaû-i Dînik	21	473
Deborah and Barak	16	233
Desatir	8	717
Dhammapada	9	52
	12	205
Dharma Sûtra	27	718
Dinkard	9	126
Dyayus	14	194
Ehud	10	25
	16	233
Eschmun Azar	12	206
Euchologion	10	561
Gabbatha	12	213
Gânas	27	716
Gemara	12	363
	16	89
Gematria	12	363
Gideon-Jerubbaal	16	233
Imitatio Dei	16	125
Indra	14	194
Jason	15	751
Jatâ-Pâtha	27	716
Jew, The Wandering	16	48
Judenstaat	16	102
Kalpa Sûtra	27	718
Kampanerthal	16	288
Karmakanda	27	712
Kâuçika Sûtra	27	717
Kedais tents	16	332
Kinah	16	416
Koran	2	127
	16	521
	19	299
Kwang-tze	12	205
Lalita Vistara	16	663
Lamaistic literature	16	665
Leviathan	17	329
Mainog-i Khiradj	21	473
Masora	18	391
Masorah	16	90
	18	391
inner or small	16	90
outer or large	16	90
Midrash	19	44
Mishna	16	89
	19	227
Mishnah Tôrah	18	140
Noah, Book of	20	382
Othniel	16	233
Pada-pâtha	27	716
Pahlavi texts	12	205
Pâippalâda	27	717
Parsi minor texts	2	677
Peshitto	21	653
Pitaka	22	119
Rabbinical language and literature	23	104
Rig Veda	14	194
	23	517
	27	715
Saṁhita	27	712
Saṁhitâs	27	715
Sâma Veda	27	716
Satapatha	4	393
Brahamana	12	205
Selections from the Tao Te King	26	251
Siva	14	196
Solomon, Odes of	25	243
Psalms of	25	243
Sonna	26	38
Sunnah	26	38
Soonnut	26	38
Sutras	27	712
	27	717

Literature — Non-Christian — cont'd	Vol.	Page
Sutta-Pittaka	22	119
Suttas, Buddhist	12	205
	26	103
Talmud	16	88
	18	140
	26	231
Babylonian	16	65
Commentaries on	16	90
Faults of	16	89
Influence of	16	89
manuscript editions and translations	16	88
Palestinean	16	65
Talmudic study, helps to	16	90
Tao Te King	26	250
Targum	26	268
Tarshish	26	274
Thorah	26	586
Torah	16	104
	26	586
Tosafoth	16	90
	27	692
Vayu	14	194
Veda	14	194
	27	712
Vedānta	27	717
Vedas	12	205
	27	712
Vedic literature	27	715
Vendīdād	2	677
Vendidad-Sadah	2	676
Vinaya-Pitaka	22	119
Vishnu, Institutes of	28	135
Visperad	2	677
Visvakarmau	14	194
Writing, Hebrew historical, origin of	14	209
Yashts	2	677
Yajur Veda	27	716
Yasna	2	676
Zend-Avesta	2	675
	12	205
	29	698
Zohar	29	720

Religious Orders, Congregations, etc.

	Vol.	Page
Alcantarines	11	760
Alexian Brothers	6	175
	20	755
All Angels, Community of	20	759
All Saints' Sisters of The Poor	20	759
Angelicals	20	759
Annunciation of the Blessed Virgin Mary, Sisters of	20	759
Apostoline Sisters	20	759
Assumption, Sisters of the	20	759
Assurance, Sisters of the	2	428
Atonement, Sisters of the Society of the	20	759
Atonement, Society of the	20	755
Augustinians	2	547
	19	341
	20	755
Austin Canons	2	548
Austin Friars	2	563
Baptistine Sisters	3	219
	20	759
Barnabites	3	262
	20	755
Basilian Monks	3	307
	20	755
Béguinæ	3	445
Béguines	3	445
Beguins	3	445
Benedictines	3	507
	19	340
	20	755
Bernadine Sisters	20	759
Bernardines or White Monks	20	755
Bethany, Sisters of	20	759
Bethlehemites	3	591
Blessed Sacrament, Congregation of the	20	7 5
Sisterhoods	20	759
Blessed Virgin Mary, Institute of	20	759
Bon Secours, Sisters of	20	759
Brethren of the Bridge	4	497
	4	506
Brethren of the Common Life	4	471
Brethren of Charity, Institute of the	4	598
	23	702
Brethren of the Holy Trinity	4	471
Brethren of the Strict Observance	4	471
Brigittines, or Order of the Saviour	4	541
	20	755
Brothers of the Christian Instruction	4	598
Brothers of the Christian Schools	4	598
	19	341
Brothers of Our Lady of Lourdes	4	599
Brothers of the Sacred Heart	4	599
Brothers of Victory	11	751
Camaldoli, Order of the	19	340
Camaldolites	5	243
Camaldulians	5	243
Camaldunians	5	243
Canons, Regular	2	548
Capuchins	5	575
	20	755
Carmelites, Order of	3	582
	5	628
	19	341
	20	755
	20	759
Carthusians	5	684
	19	340
	20	755
Catharine, Saint, Order of	6	52
Celestines	6	169
Cellites	6	175
Cenacle, Ladies of the	20	759
Cenobites	6	191
Cesarines	11	760
Charity, Brothers of	20	755
Charity, Sisters of	20	759
Charity of Saint Vincent De Paul, Daughters of	20	760
Christian Brothers, Irish	20	755
Christian Doctrine, Fathers of the Congregation of	20	755
Christian Instruction, Brothers of the	4	598
	20	756
Christian Schools, Brothers of the	4	598
	19	341
	20	756
Cistercians	6	699
	20	756
	20	760
Cluniacs	7	138
Cluny, Congregation of	7	138
Columban Monks	7	334
Common Life, Brethren of the	7	415
Common Lot, Brethren of the	7	415
Compostella, Order of Saint James of	7	447
Congregation of the Mother of God	7	500
Congregation of Our Lady of Calvary	7	500
Congregations, religious	7	504
Conventual Friars, Minor	11	761
Conventuals	11	760
Cordeliers	7	687
Cowley Fathers	13	640
	19	341
Divine Compassion, Sisters of the	20	760
Divine Love of Jesus, Missionaries of the	20	756
Divine Saviour, Society of the	20	756
	20	760
Divine Word, Society of the	20	756
Dominicans	9	247
	11	758
	19	238
	19	341
	20	756
	26	450
Epiphany, Society of the	20	760
Essenes	19	340
Eudists	10	564
	20	756
Faithful Virgin, Sisters of the	20	760
Fathers of Saint Lazarus	17	159
Felician Sisters	20	760
Feuillants	11	161
Franciscan Order	2	16
	11	758
	11	759
	19	238
	19	341
	20	756
	26	450
Fratres Prædicantes	9	247
Friars Preachers	9	247
Friends of God	12	108
Gabriel, Congregation of the Brothers of	12	215
Gilbertines	12	650
Golden Knights	14	330
Good Shepherd	19	341
	20	760
Good Shepherd Sisters	20	760
Gregory, Order of Saint	13	4 8
Grey Nuns of the Cross	20	760
Helpers of the Holy Souls, Society of	20	760
Hermits of Saint Francis of Assisi	11	751
Holy Child Jesus, Sisterhood of the	20	760
Holy Communion Sisters	20	760
Holy Cross, Canons of the	20	756
Congregation of the	20	756
Order of the	19	341
Sisters of the	20	760
of Westminster, Order of the	20	756
Holy Family	20	760
Holy Ghost, Congregation of	20	756
Order of	14	326
Sisters of	20	760

Religious Orders, Etc.— cont'd Vol. Page

Holy Heart of Mary, Sister-Servants of..... 20 760
Holy Humility of Mary, Sisters of the..... 20 760
Holy Infancy, Brothers of the..... 20 756
Holy Names of Jesus and Mary, Sisters of the 20 761
Holy Nativity, Sisterhood of the..... 20 761
Holy Saviour, Companions of the..... 20 756
Holy Sepulchre, Canons of the..... 14 330
Canonesses of the... 14 330
Fathers of the..... 14 330
Knights of the..... 14 330
orders of the..... 14 330
Immaculate Conception, Regular Canons of the 20 756
Sisters of the..... 20 761
Immaculate Heart of Mary, Sister-Servants of the..... 20 761
Incarnate Word and Blessed Sacrament, Sisters of the..... 20 761
Infant Jesus, Daughters of the Congregation of the..... 15 116
Sisters of the..... 20 761
Jesuits 14 40
16 36
17 215
17 676
17 709
19 341
20 756
24 616
25 56
Jesus, Company of..... 19 341
and Mary, religious of 20 761
Daughters of..... 20 761
Society of..... 17 709
Society of the Faithful Companions of. 20 761
John, Order of Saint.... 16 161
Josephite Fathers..... 20 756
Knights Hospitallers... 19 341
Knights Hospitallers of Saint John..... 16 161
Knights of Malta..... 16 161
Knights of Rhodes..... 16 161
Lady of Mercy, Order of Our 16 645
La Sagesse, Sisters of.. 20 761
La Salette, Missionary Fathers of..... 20 756
Lazarists 17 159
20 756
Little Company of Mary 20 761
Little Sisters of the Poor 20 761
Loreto Nuns..... 20 761
Mantellate Sisters..... 20 761
Marian Fathers..... 20 756
Marists 18 294
Marist Brothers or Little Brothers of Mary..... 20 756
Marist Fathers..... 20 756
Marist Sisters..... 20 761
Mary of Montfort, Company of..... 20 757
Mary of Paris, Society of 20 757
Maurists 18 451
20 757

Religious Orders, Etc.— cont'd Vol. Page

Mercy, Fathers of..... 20 757
Sisters of..... 18 670
20 761
Minim-Hermits of Saint Francis of Paola..... 11 751
Minimites 19 172
Misericorde, Sisters of.. 20 761
Mission Helpers, Institute of..... 20 761
Missions, Pious Society of 20 757
Monasticism 19 340
Monastic orders, growth of 14 277
Most Holy Redeemer, Order of the..... 23 286
Most Precious Blood, Congregation of the.. 20 757
Nazareth, Brothers of.. 20 757
Nazarites 19 340
Norbertines 22 531
Nostra Domina, School Sisters De..... 20 761
Notre Dame Sisters.... 20 761
Oblates 20 757
Observants 11 760
Orders, religious..... 20 754
Canadian 5 402
Our Lady of Good Counsel, Sisters of..... 20 761
Our Lady of the Holy Rosary, Congregation of 20 761
Our Lady of Lourdes, Brothers of..... 20 757
20 761
Our Lady of Mercy, Order of..... 19 341
Our Lady of Perpetual Help, Sisters of..... 20 761
Oratorians, or Congregation of the Oratory... 20 731
Our Lady of Sion, Congregation of..... 20 761
Our Saviour, Regular Canonesses of the Five Wounds 20 761
Paccanarists 21 86
Passionists 20 757
21 371
Passionist Nuns..... 20 761
Paulists 14 61
14 161
21 420
Paulites 21 421
Perpetual Adoration, religious of..... 20 761
Piarists 22 60
Picpus, Congregation of 20 757
22 69
Pious Society of Missions, Sisters of the.. 20 761
Poor Clares..... 11 758
Poor Handmaids of Jesus Christ..... 20 761
Preachers of Penance... 11 758
Premonstratensians 20 757
22 531
Presentation of the Blessed Virgin Mary, Order of the..... 20 762
Providence, Sisters of... 20 762
22 708
Rechabites 19 340
23 269
Recollects 11 760
20 757
23 271
Recollet 23 271
Redemptoristine Nuns.. 23 286

Religious Orders, Etc.— cont'd Vol. Page

Redemptorists, or Congregation of the Most Holy Redeemer..... 20 757
20 762
23 286
Reformati 11 760
Regulars 13 301
23 325
Resurrection, Congregation of the..... 20 758
Resurrection Sisters.... 20 762
Rosary, Fraternity of the 23 691
Rosinians, or Fathers of Charity 20 758
Russian monasteries.... 24 39
Sacred Heart, Brothers of the..... 20 758
Ladies of the..... 20 762
Sacred Hearts of Jesus and Mary, Congregation of the..... 20 758
Sacred Heart of Saint Jacut, Sisters of the.. 20 762
Saint Agnes, Order of.. 20 762
Saint Ann, Sisters of... 20 762
Saint Augustine, Hermits of..... 2 547
Sisters of..... 20 762
Saint Basil, Order of.... 2 500
Saint Basil the Great, Sisters of the Order of 20 762
Saint Benedict, Order of 20 762
Saint Bridget, Order of. 20 762
Saint Casimir, Sisters of 20 762
Saint Charles Borromeo, Congregation of the Missionaries of..... 20 758
Saint Chretienne, Sisters of 20 762
Saints Cyril and Methodius, Congregation of. 20 762
Saint Dominic, Orders of 20 762
Saint Dorothy, Sisters of 20 762
Saint Edmund, Society of 20 758
Saint Francis, Order of. 20 762
Saint Francis Seraphicus, Poor Brothers of. 20 758
Saint Francis, Third Order of..... 11 758
Saint Gabriel, Brothers of 20 758
Saint Hubert, Order of. 24 131
Saint John the Evangelist, Sisters of... 20 762
Society of Mission Priests of..... 20 758
Saint John the Baptist, Sisterhood of..... 19 341
20 762
Saint Joseph, Order of.. 20 758
20 762
Saint Joseph of Nazareth, Sisterhood of... 20 763
Saint Margaret, Sisters of 19 341
20 763
Saint Marthe, Sister Servants of..... 20 763
Saint Mary, Sisters of.. 19 341
20 763
Saint Mary and All Saints, Sisters of..... 20 763
Saint Mary and Ladies Catechists, Missionaries of..... 20 763
Saint Monica, Sisters of 20 763
Saint Paul, Hermits of.. 21 421
Saint Saviour, Sisters of 20 763

Religious Orders, Etc.— cont'd	Vol.	Page
Saint Theresa of Jesus, Sisters of	20	763
Saint Viateur, Clerics of	20	758
Salesian Fathers	20	758
Salesian Sisters of the Holy Eucharist	20	763
Sisters	25	47
Sisters of Charity	19	341
	24	618
Sisters of Mercy	19	341
Society or Company of Jesus	16	36
Sorrowful Mother, Sisters of the	20	763
Strict Observance, Friars of the	20	758
Sulpicians, Society of	20	758
Tertiaries	26	450
Therapeutæ Order	19	340
Theresians	20	758
Transfiguration, Sisters of the	20	763
Trappists	20	758
Trinitarians, Order of	19	341
	27	66
Ursuline Nuns	20	763
Vallombrosa, Order of	27	652
Venerini Sisters	20	763
Vincentian Congregation	28	98
Visitation Nuns	11	758
	20	763
White Friars	29	271
Wisdom, Daughters of	20	763
Xaverian Brothers	20	758

Ecclesiology

(Liturgy, Ritual, Vestments, Furniture, etc.)

Ecclesiology.— cont'd	Vol.	Page
Alb	1	323
	8	52
Alleluia	13	647
Almuce	8	54
Ambo	1	472
Amice	1	572
	8	53
Amict	1	572
Amida	16	112
Anamoladium	8	53
Baculus	8	54
Baldachin	3	74
Band	3	136
Baptism	3	218
	23	540
Bedikah	16	122
Biretta	4	3
	8	54
Calotte	8	55
Camauro	8	55
Canonical hours	5	523
Capitularis	18	398
Cassock	5	713
	8	55
Ceremoniale	6	224
Ceremonies	23	643
Chalice	6	252
Chasuble	6	348
	8	53
Chimere	8	55
Chirothecæ	8	54
Chrism	6	596
Ciborium	6	667
Cingulum	8	53
Collect	7	253
Cope	7	647
	8	55
Corona Lucis	8	251
Corporal	8	1
Costume, eccleciastical	8	52
Costume of the Monastic orders	8	56
Cotta	8	55
Crosier	8	229
Dalmatic	8	53
	8	421
Ecclesiology	9	540
Ephod	10	414
Exposition of the Sacrament	10	661
Extreme Unction	10	675
Faldstool	10	729
Fanon	8	54
	11	11
Feast	11	75
Feet washing	11	95
	11	455
	14	331
First Book of Common Prayer	13	183
Foldstool	10	729
Genuflection	12	404
Girdle	8	53
Gregorian chant	13	443
	17	293
Gregorian liturgy	13	446
Gregorian mass	13	446
Gregorian sacramentary	13	451
Halleluia	13	647
Hallelujah	13	647
Holy mantle	27	50
Humerale	8	53
Kyrie Eleison	16	564
Lectern	17	212
Lettern	17	212
Liturgies of Gaul and Spain	17	526
Liturgy	17	525
Alexandrian group	17	526
Basilian	3	307
East Syrian group	17	526
Gallican	17	526
Mozarabic	17	526
	19	542
West Syrian group	17	526
Manicæ	8	54
Maniple	8	53
	18	217
Mantelletta	8	55
Mass	18	393
Canon of	5	522
	17	526
Chapter	18	398
Conventual	18	398
Dry	18	398
High	18	396
Low	18	397
of the Presanctified	18	397
Nuptial	18	398
Requiem	18	398
Melihah	16	122
Minhag America	16	113
Missa conventualis	18	398
Missa privata	18	397
Missa sicca	18	398
Missa solemnis	18	396
Missa solitaria	18	398
Missal	19	228
Mitre	8	54
	19	272
Monstrance	19	378
Mozetta	8	55
Nebbelah	16	122
Obit	20	541
Offertory	20	598
Office, Divine	20	598
Omophorion	8	55
Orale	8	54
Ordination	20	770
Ornaments, Rubric	13	184
	21	3
Pall	8	53
	21	207
Palla	8	1
	21	207
Pallium	21	210
Passion cross	21	210
	21	369
Pastoral staff	8	54
	21	377
Paten	21	380
Pax	21	431
Pectoral cross	8	54
Prayer book	13	295
Purification	23	28
Rational	8	54
Ring, Episcopal	8	54
	23	530
Episcopal cermonial	25	530
fisherman's	23	530
Papal	23	530
Rings, decade	23	530
ecclesiastical	23	530
Rite	23	538
Rite and Ritual	23	538
Abyssinian	19	240
Alexandrian	18	394
Armenian	19	240
of anointment	23	539
of Antioch	18	394
Coptic	19	240
Ethiopian	19	240
Gallican	18	394
Greek	19	240
Roman	18	395
Syriac	19	240
Rites, origin of	23	539
Ritual	23	28
	23	539
	23	544
of the Anglican Church	23	544
Lamaistic	16	665
law	23	544
myth	23	538
and writing	23	539
of Zoroastrianism	29	733
Ritualism	23	544
growth of	23	541
	23	545
history of	23	545
Ritualist	23	545
Ritualistic change	23	541
Rochet	8	55
	23	593
Sandals	8	53
Scapular	8	55
	24	354
Scapulary	24	354
Shehitah	16	121
	16	122
Shemone Esre	16	112
Silverware, ecclesiastical	25	17
Soutane	8	55
	25	273
Stole	8	53
	25	670
Subcingulum	8	54
Sudarium	8	242
Surplice	8	55
	26	90
Tenebræ	21	370
	26	412
Tiara	26	605
Trefah	16	122
Tunicle	8	54
Veil	8	1
Vestments, ecclesiastical	28	45
Papal	8	55
of the Roman Church	8	52

Ecclesiology.— cont'd	Vol.	Page
sacred	8	52
Vestry	28	45
Washing of feet	11	95
	11	455
	14	331
Zuchetta	29	736
Zuchetto	29	736

Church Law, Government and Discipline

Apostolic camera	8	308
Apostolic chancery	8	307
Apostolic segnatura	8	307
Assembly, general	2	420
Benefices, Papal reservation of	3	508
	23	410
Canon law	5	514
code of	21	321
Catholic Church, organization of	6	68
Censure	6	193
Christian world, head of	14	275
Church authority	6	69
Church discipline	6	655
Church government	6	655
Commendam	7	365
Congregatio de Propaganda Fide	22	650
Congregations, Sacred	6	69
	7	504
Corpus Juris Canonici	7	504
	8	17
Council	8	96
Curia Romana	8	307
	15	474
Dataria	8	307
	8	490
Decretum Gratiani	8	17
Degradation	8	597
Delicts, Catholic	17	136
Diocese	9	131
Discipline, ecclesiastical	9	152
Elders	10	57
Episcopacy	10	429
Eucharist, reservation of	23	410
Examinations, Catholic	17	136
Excommunication	10	620
Exequator	22	140
Faculty	10	706
Forum Ecclesiasticum	11	525
Forum Externum	11	525
Forum Internum	11	525
Hierarchy	14	170
lamaistic	16	664
Law, canon, the new code of	17	133
	21	321
canonical	18	816
Lex arcani	24	92
Mennonites, general conference of	18	634
Methodist Episcopal Church, general conference of	12	371
Ne Temere decree	20	21
Nomocanon	20	393
Parish	21	320
Parson	21	348
Placet	22	140
Placitum	22	140
Regium	22	140
Pluralism	22	259
Plurality	22	259
Presbytery	22	543
Processes, Catholic legal	17	136
Propaganda	22	679
Protestant Episcopal Church, house of bishops	22	682

Church Law, Etc.— cont'd	Vol.	Page
Punishments, Catholic	17	136
Records, Catholic	17	136
Rites, Congregation of	23	542
Rota	8	307
Rota Romana	23	713
Sacred Penitentiaria	8	307
Sanhedrin	24	261
Secretariate of briefs	8	308
See	24	526
Suspension	26	102
Synod	26	175
Synods, Lutheran	17	757

Church Dignitaries Titles, Offices

Abbé	1	12
Abbess	1	12
Abbot	1	15
Abbreviators	1	26
Ablegate	1	43
Acolyte	1	95
Advocatus dei	1	171
Advocatus diaboli	1	171
Apostolic delegate	2	70
Apostolic See	2	70
Apostolic succession	2	70
Archbishop	2	165
Archdeacon	2	166
Arches Court	2	168
Archimandrite	2	168
Batlanim	16	112
Bishop	4	14
	6	69
Bishops suffragan	4	16
Camerlengo	5	262
Cantor	16	112
Cardinals	6	69
college of	5	602
Censer	6	192
Church-warden	6	661
Clergy	7	90
Clerk	7	90
Coadjutor	7	143
Commissary	7	402
Confessor	7	496
Congregations, sacred	6	69
	7	504
Custos	22	601
Deacon	6	69
	8	524
Deaconesses	8	524
Dean	8	538
Devil's advocate	1	171
	3	386
Domine	9	242
Eminence	10	294
Episkopos	16	112
Epistoler or epistler	10	435
Exarch	10	617
Exilarch	10	638
Hazan	16	112
High priest	14	178
Imam	14	708
	27	262
In partibus infidelium	14	732
Kâdis	27	262
Korah, sons of	22	725
Lama, Dalai	26	606
Grand	16	664
	26	606
Lector	17	213
Legate	17	240
Lords of the Congregation	17	657
Lords spiritual	17	658
Marriage tie, Defender of	8	586
Methurgeman	16	112
Metropolitan	2	165
	18	734

Church Dignitaries, Etc. — cont'd	Vol.	Page
Minyan	16	112
Mollas	27	262
Monsignore	19	377
Müftis	27	262
Nuncio	20	499
Ostiarius	21	34
Parnas	16	112
Patriarchs	21	402
Penitentiary	21	511
Pontifex	22	351
Pope	6	69
	22	356
Porter	21	34
Præpositus	22	601
Prebend	22	519
Prelate	22	529
Presbyter	4	14
Priests	6	69
	22	571
Primate	22	676
Prior	22	601
Proctor	22	632
Prothonothary Apostolic	22	690
Provost	22	711
Rabbi	16	112
	23	108
Rector	23	275
Reverend	23	446
Sacristan	24	98
Servus Servorum Dei	24	606
Sexton	24	630
Shammash	16	112
Sheikh-ul-Islâm	27	262
Sub-deacon	25	760
Thurifer	26	601
Titular bishop	26	654
Titular church	26	654
Ulema	27	262
Vicar	28	37
Apostolic	13	300
Warden	28	701

Saints

Acacius	1	60
Adalbert of Prague	1	114
Adamnan	1	118
Agatha	1	233
Agnes	1	238
Alban	1	324
Aloysius Gonzaga	1	435
Alphonsus Liguori	1	438
	17	435
Ambrose	1	473
	11	558
	14	599
Anastasia	1	625
Andrew	1	673
Anne	1	717
Anselm	2	6
Anthony	2	16
	11	558
Anthony of Padua	2	16
Aristides	2	236
Arnulf	2	320
Athanasius	2	491
	11	558
Augustine	2	69
	2	544
	11	197
	11	558
	13	450
	14	215
	18	181
	19	238
	19	667
	25	63
Austin	2	545
Avitus	2	679
Babylans	3	7
Babyllus	3	7

Saints — cont'd	Vol.	Page
Barbara	3	231
Bartholomew	3	291
Basil	3	307
	11	560
Benedict	3	504
	15	488
	25	62
Benno	3	522
Bernard of Clairvaux	1	36
	3	568
Bernard of Mentone	3	568
Bernward	3	576
Birgit	4	530
Birgitta	26	122
Birinus	4	4
Blaise	4	64
Blandina	4	61
Blasius	4	64
Bonaventura	4	208
Boniface	4	216
	12	191
	13	451
	19	238
Brenainn	4	465
Brendan	4	465
Brice	4	489
Bride	4	530
Bridget (Ireland)	4	530
Bridget (Sweden)	4	530
Brigitte	4	530
Bruno	4	636
Caesarius of Arles	5	141
Catharine	6	51
Catharine of Alexandria	6	51
Catherine of Siena	6	52
	15	488
Cecilia	6	159
Celestine I	6	168
Celestine V	6	168
Chantal, Jane Frances Frémyot	6	292
Charles Borromeo	13	456
Christopher	6	630
Chrodegang	6	631
Chrysostom, John	6	649
Clara	7	33
Clare	7	33
	26	562
Clement of Alexandria	7	87
Columba	7	333
	15	330
Cuthbert	8	339
Cyprian	8	368
	21	497
Cyril	8	371
Cyril of Jerusalem	8	372
Daircell	8	397
Damasus	8	429
David	8	500
Denis	8	678
Dionysius	8	678
	9	135
	19	667
Dismas	9	167
Dominic	9	242
Dunstan	9	408
Egbert	9	729
Eligius	10	239
Elizabeth	10	247
	26	562
Elmo	10	261
Eloi	10	239
	24	620
Emmeram, Saint	10	296
Emmeran	10	296
Engelbert	10	335
Ephraem Syrus	10	415
Epiphanius	10	427
Erasmus	10	261
	10	466
Ermo	10	261

Saints — cont'd	Vol.	Page
Ethelreda	10	533
Eutychianus	10	588
Felix I	11	103
Felix II	11	103
Fiachra	11	164
Fiacre	11	164
Filippo de' Neri	13	456
	20	79
Flavian I	11	337
Flavian, Saint	11	337
Florian	11	366
Francesco di Paula	11	751
Francis	4	271
	26	562
Francis de Sales	11	758
Francis of Assisi	11	757
	15	488
	19	222
Francis of Paola	11	751
Francis Xavier	11	759
	16	38
	19	239
Fridolin, or Fridold	12	102
Frumentius	12	139
Fulgentius	12	152
Gall	12	239
Gelasius I	12	360
Geneviéve (France)	12	395
Geneviéve (Germany)	12	396
George	12	472
Giles (Saint Aegidius)	12	653
Giovanni di Capistrano	5	558
Godegrand	6	631
Gregory I (Pope)	13	450
	25	61
Gregory II (Pope)	13	451
Gregory III (Pope)	13	455
Gregory VII	13	453
Gregory of Armenia	13	447
Gregory of Nazianzus	13	447
Gregory of Nyssa	13	449
Gregory of Tours	13	449
Helena	14	76
Hermione	2	69
Hilarion	14	185
Hilarius Arelatensis	14	185
Hilary	14	185
Hilary of Arles	14	185
Hilary of Gaul	14	596
Hilda	14	185
Hubert	2	69
	14	465
Hugh Avalon	14	477
Ignatius Loyola	15	488
	17	708
	19	239
	25	55
Innocent I	15	143
Irenæus	15	322
James	15	601
Januaris	15	617
Jerome	11	539
	14	214
	16	26
	28	196
Johannes Capistranus	5	558
John	24	132
John I	16	154
John Chrysostom	11	199
	11	558
John Damascene	8	426
John of Beverley	3	602
John of Damascus	16	163
John of Nepomuk, or Pomuk	16	164
Joseph	16	211
Kilian, or Kuln	16	411
Kunigunde	16	556
Laurence	17	109
Lawrence	17	146
Leander	17	177

Saints — cont'd	Vol.	Page
Leo I	17	292
Leo II	17	293
Leo III	17	293
Leo IV	17	293
Leo IX	17	294
Liudger	17	526
Louis	11	618
Malachi	15	157
Malachy	18	158
Marcellinus	18	267
Marcellus I	18	267
Margaret	18	278
Marino	11	560
Martin I	18	335
Martin of Tours	18	335
Miltiades	19	132
Monica	19	355
Nicholas	20	312
Nicholas I	20	313
Nicholas of Myra	20	313
Ninian	20	362
Notker Balbulus	20	458
Olaf	20	642
Olga	20	661
Oswald	21	38
Pachomius	19	340
	21	87
Pamphilus	21	222
Pancras	21	241
Paschal I	21	364
Patrick	11	198
	14	165
	15	329
	19	238
	21	402
Paul	24	156
Paul I	21	412
Paul of the Cross	21	414
Paul of Thebes	21	414
Paul the Hermit	19	340
Paulinus of York	21	420
Peter	2	69
	24	163
Peter Claver	21	659
Petrus Damiani	8	430
Pius I	22	136
Pius V	22	136
Polycarp	22	327
	24	513
Remigius	23	365
Robert of Molesme	23	367
Rose of Lima	23	694
Sebastian	24	498
Severinus	24	622
Silvester I	25	20
Sixtus I	25	64
Sixtus II	25	64
Sixtus III	25	64
Stephen	25	617
Stephen I	25	617
Swithin	24	170
	26	142
Teresa	26	442
Teresa of Spain	25	58
Thecla	26	505
Thomas	26	570
Thomas à Becket	13	454
Thomas Aquinas	2	113
	18	181
Urban I	27	589
Ursula	27	599
Valentine	27	645
Veronica	28	35
Victor I	28	66
Vincent	28	95
Vincent de Paul	28	97
Vincentius	28	95
Vitus	28	156
Walburga	28	246
Walpurga	28	246
Walpurgis	28	246

Saints — cont'd	Vol.	Page
Wenefride	29	396
Wilfrid	29	317
Wilfrith	29	317
Willbrord	29	319
William of Norwich	16	100
Willibrod	29	319
Winifrid	13	451
	29	396
Zacharias	29	680
Zachary	29	680

Biographies (Churchmen, Religious Leaders, etc.)

UNITED STATES

Biographies — cont'd	Vol.	Page
Abbott, Benjamin	1	16
Abbott, Edward	1	17
Abeel, David	1	34
Adams, Benjamin Matthias	1	119
Addison, Daniel Dulany	1	131
Allen, Edward Patrick	1	412
Allen, Henry	1	414
Allen, Horace Newton	1	414
Allen, Richard	1	415
	18	726
Ament, William Scott	1	478
Ames, Edward Raymond	1	569
Anderson, William Franklin	1	661
Andrew, James Osgood	1	673
Andrews, Edward Gayer	1	674
Anthony, Sister	2	17
Appenzeller, Henry Gerhart	2	81
Appleton, Jesse	2	89
Armitage, Thomas	2	273
Asbury, Francis	2	377
	18	723
Atkinson, Thomas	2	501
Atwill, Edward Robert	2	528
Atwood, Julius Walter	2	528
Ayres, Anne	2	685
Babcock, Maltbie Davenport	3	4
Backus, Isaac	3	18
Badger, Joseph	3	34
Baird, Charles Washington	3	56
Baker, Osmon Cleander	3	61
Baldwin, Stephen Livingston	3	77
Ballou, Hosea	3	110
	27	570
Bancroft, Aaron	3	132
Barnwell, Robert Woodward	3	270
Barrows, Samuel June	3	284
Bartlett, Samuel Colcord	3	294
Bascom, Henry Bidleman	3	301
Bashford, James Whitford	3	306
Bass, Edward	3	315
Batchelor, George	3	328
Bayley, James Roosevelt	3	365
Beach, David Nelson	3	371
Beaven, Thomas	3	397
Beckwith, John Watrus	3	408
Beecher, Edward	3	424
Beecher, Henry Ward	3	424
Beecher, James Chaplin	3	426
Beecher, Lyman	3	426
Beecher, Thomas Kinnicutt	3	426
Bellows, Henry Whitney	3	491
Benton, Angelo Ames	3	528
Berg, Joseph Frederick	3	542
Biard, Pierre	3	611
Bingham, Hiram	3	715
Bixby, James Thompson	4	28
Blackwell, George Lincoln	4	48
Blair, James	4	54
Blanc, Anthony	4	58
Blenk, James Hubert	4	78
Bliss, Daniel	4	87
Bliss, Edwin Elisha	4	87
Bliss, Howard Sweetser	4	88
Bliss, Philip Paul	4	88
Bliss, William Dwight Porter	4	89
Boardman, George Dana	4	136
Boehler, Peter	4	148
Boehm, Martin	27	302
Boone, William Jones	4	249
Booth, Ballington	4	251
Booth, Maud Ballington	4	253
Booth-Tucker, Emma Moss	4	253
Booth-Tucker, Frederick St. George de Lautour	4	253
Bottome, Margaret McDonald	4	319
Bowman, Thomas	4	366
Boyce, James Petigru	4	372
Brady, Cyrus Townsend	4	390
Brainerd, David	4	407
Brainerd, Thomas	4	407
Brann, Henry Athanasius	4	415
Breck, James Lloyd	4	456
Breckenridge, John	4	457
Brent, Charles Henry	4	467
Bridgman, Elijah Coleman	4	532
Broadus, Andrew	4	568
Brondel, John Baptiste	4	578
Bronson, Solon Cary	4	579
Brooke, Francis Key	4	589
Brooks, Phillips	4	595
Brown, William Montgomery	4	612
Brownell, Thomas Church	4	618
Brownson, Orestes A.	4	622
Buckminster, Joseph Stevens	4	669
Bulkeley, Peter	5	7
Burch, Charles Sumner	5	32
Burgess, Alexander	5	37
Burgess, George	5	38
Burke, Maurice Francis	5	47
Burke, Thomas Martin Aloysius	5	48
Burnett, Peter Hardeman	5	57
Burt, William	5	67
Burton, Lewis William	5	68
Burtsell, Richard Lalor	5	70
Byington, Cyrus	5	95
Cadman, Samuel Parks	5	133
Cain, Richard Harvey	5	147
Calkins, Raymond	5	225
Calley, Walter	5	227
Cammerhoff, John Christophe Frederic	5	266
Campbell, Alexander	5	276
Campbell, Thomas W.	5	280
Cancer, Luis	5	490
Capers, Ellison	5	551
Capers, William	5	551
Carroll, Henry King	5	673
Carroll, John	5	673
Cartwright, Peter	5	687
Chalkley, Thomas	6	253
Chamberlain, Jacob C.	6	259
Chamberlain, Nathan Henry	6	262
Chambers, Talbot Wilson	6	264
Channing, William Henry	6	291
Chapelle, Placide Louis	6	295
Chapman, J. Wilbur	6	297
Chase, Philander	6	342
Chatard, Francis S. M.	6	349
Cheney, Charles Edward	6	410
Cheshire, Joseph Blount	6	423
Childs, Thomas Spencer	6	499
Clark, Thomas March	7	43
Clarke, John	7	48
Clayton, James Benjamin	7	74
Clinton, George Wylie	7	114
Coan, Titus	7	166
Cobb, Sylvanus	7	174
Cobbs, Nicholas Hamner	7	178
Coe, Edward Benton	7	198
Coke, Thomas	7	228
Coleman, John	7	243
Coleman, Leighton	7	243
Colman, Benjamin	7	274
Colton, Charles Henry	7	333
Conaty, Thomas James	7	458
Cone, Spencer Houghton	7	485
Cooke, Richard Joseph	7	625
Corrigan, Michael Augustine	8	20
Corwin, Edward Tanjore	8	29
Cotter, Joseph B.	8	58
Cotton, John	8	59
Cranston, Earl	8	160
Craven, Elijah Richardson	8	164
Cressey, George Croswell	8	182
Cretin, Joseph	8	185
Cummins, George David	8	300
Cunningham, John Francis	8	303
Curtis, Alfred A.	8	316
Cusack, Thomas F.	8	332
Cutler, Timothy	8	340
Daniel, Anthony	8	452
Darlington, James Henry	8	479
Dashiel, Robert Laurenson	8	489
Davies, Samuel	8	506
Davies, Thomas Frederick	8	506
De Lancey, William Heathcote	8	606
Dempster, John	8	673
De Smet, Peter John	9	11
Dickinson, Jonathan	9	84
Dix, Morgan	9	209
Doane, George Hobart	9	213
Doane, George Washington	9	213
Doane, William Croswell	9	214
Douglas, George William	9	278
Dow, Lorenzo	9	286
Dow, Peggy	9	286
Dowie, John Alexander	9	287
Drähms, August	9	297
Dubbs, Joseph Henry	9	369
Dubois, John	9	374
Dudley, Thomas Underwood	9	383
Duncan, William Wallace	9	401
Dwight, Harrison Gray Otis	9	446
Dwight, Henry Otis	9	446
Dwight, Sereno Edwards	9	446
Dwight, Timothy	9	447
Dyer, Mary	9	451
Early, John	9	487

Biographies — cont'd	Vol.	Page
Eaton, Edward Dwight.	9	517
Eccleston, Samuel.....	9	540
Eddy, Mary Baker.....	9	577
Edsall, Samuel Cook....	9	591
Edwards, Arthur.....	9	706
Edwards, Jonathan.....	9	708
Edwards, Jonathan, Jr.	9	711
Elder, William Henry..	10	56
Eliot, John.....	10	243
England, John.....	10	352
Ettwein, John	10	557
Evarts, Jeremiah.....	10	594
Ewer, Ferdinand Cartwright	10	616
Ewing, Finis.....	10	616
Falckner, Justus.....	17	755
Fallows, Samuel	10	735
Farley, John Murphy...	11	21
Feehan, Patrick Augustine	11	95
Fenn, William Wallace..	11	117
Ferguson, Samuel David	11	124
Ferris, John Mason....	11	141
Field, David Dudley...	11	180
Fink, Louis Maria.....	11	224
Finley, Robert.....	11	226
Finotti, Joseph Maria...	11	227
Fisk, Fidelia.....	11	295
Fisk, Pliny.....	11	295
Fitzgerald, James Newbury	11	301
Fitzgibbon, Mary Irene.	11	301
Flaget, Benedict Joseph	11	323
Fleming, John.....	11	344
Flickinger, Daniel Kumler	11	352
Fowler, Charles Henry.	11	561
Freeman, James.....	12	51
Freeman, James Midwinter	12	51
Frey, Joseph Samuel Christian Frederick ..	12	98
Fuller, Arthur Buckminster	12	153
Fuller, Richard.....	12	154
Furman, Richard.....	12	180
Gabriels, Henry.....	12	215
Gallor, Thomas Frank..	12	227
Gallitzin, Demetrius Augustine	12	249
Galloway, Charles Betts	12	249
Gannett, Ezra Stiles....	12	274
Garnet, Henry Highland	12	295
Garrett, Alexander Charles	12	297
Garrigan, Philip Joseph	12	298
Garvey, Eugene A.....	12	301
Gates, Caleb Frank.....	12	335
Gates, Frederick Taylor	12	336
Gerhart, Emanuel Vogel	12	496
Gibbons, James, Cardinal	12	641
Gibson, Robert Atkinson	12	645
Gillespie, George de Normandie	12	655
Gilmour, Richard	12	657
Glennon, John Joseph..	12	715
Gmeiner, John.....	12	735
Goodsell, Daniel Ayres..	13	58
Goodell, William.....	13	57
Grabau, J. A.....	17	756
Granbery, John Cowper.	13	122
Grant, Heber J.....	19	465
Gravatt, William Loyall	13	162
Graves, Anson Rogers..	13	163
Graves, Frederick Rogers	13	163
Gray, William Crane...	13	167
Green, Ashbel.....	13	422
Greene, Daniel Crosby..	13	428
Greenwald, Emanuel....	13	440
Greer, David Hummell..	13	442
Griswold, Alexander Viets	13	482
Grose, George Richmond	13	487
Gross, William Hickley.	13	488
Gulick, John Thomas...	13	543
Gunsaulus, Frank Wakeley	13	572
Gutwasser, John Ernest	17	755
Hall, Arthur Crawshay Alliston	13	640
Hall, Gordon.....	13	641
Hall, John	13	642
Hamilton, Franklin Elmer Ellsworth.....	13	657
Hamilton, John Taylor.	13	659
Hamilton, John William	13	659
Hamline, Leonidas Lent	13	664
Hanaford, Phebe Ann Coffin	13	670
Hanna, Edward J.....	13	678
Harada Tasuku.....	13	686
Harbaugh, Henry.....	13	687
Hare, William Hobart..	13	707
Harris, Merriam Colbert	13	724
Harris, Samuel.....	13	724
Hart, Samuel.....	13	733
Harty, Jeremiah J.....	13	743
Hartzell, Joseph Crane.	13	743
Haven, Erastus Otis....	13	763
Hawley, Gideon.....	14	8
Hayes, Patrick Joseph..	14	18
Haygood, Atticus Green.	14	20
Hearn, David William..	14	35
Heck, Barbara.....	14	61
Hecker, Isaac Thomas..	14	61
	21	420
Heckewelder, John Gottlieb Ernest.....	14	61
Hedding, Elijah.....	14	62
Heiss, Michael.....	14	75
Hendrick, Thomas Augustine	14	95
Hendrix, Eugene Russell	14	95
Hennessy, John.....	14	97
Hennessy, John Joseph.	14	97
Henson, Josiah.....	14	109
Herron, George Davis..	14	150
Hewit, Nathaniel Augustus	14	161
Hibbens, Anne.....	3	487
Hicks, Elias.....	14	169
Higginson, Francis.....	14	176
Hobart, John Henry....	14	301
Hodge, Archibald Alexander	14	307
Hoffman, Eugene Augustus	14	309
Hogan, John Joseph...	14	311
Hoge, Moses Drury....	14	312
Hooker, Thomas.....	14	363
Hopkins, John Henry..	14	372
Horstmann, Ignatius F..	14	417
Hoss, Elijah Embree....	14	433
Houghton, George Hendrick	14	442
Hoyt, Arthur Stephen..	14	461
Hughes, Edwin Holt...	14	478
Hughes, John.....	14	479
Humphreys, Frank Landon	14	496
Huntington, Frederic Dan	14	518
Huntington, William Reed	14	519
Hutchinson, Anne.....	14	528
	27	469
Inglis, Charles.....	15	131
Inskip, John S.....	15	165
Ireland, John.....	15	309
Ives, Levi Silliman.....	15	563
Jacobs, Michael.....	15	592
Janes, Edmund Storer..	15	611
Jarratt, Devereux.....	15	749
Jarvis, Samuel Farmer..	15	750
Jay, William.....	15	763
Jenks, Arthur Whipple.	16	14
Jenks, William.....	16	15
Jennings, Samuel.....	16	16
Jogues, Isaac.....	16	154
Johnston, James Steptoe	16	185
Jones, John William....	16	200
Jones, Peter.....	16	201
Joyce, Isaac Wilson....	16	225
Judge, William Quan...	16	232
Judson, Ann Hasseltine	16	237
Judson, Edward.....	16	237
Junipero, Miguel José Serra	16	250
Junkin, George.....	16	251
Kain, John Joseph.....	16	278
Katzer, Frederic Xavier	16	318
Kavanagh, Hubbard Hind	16	322
Keane, James John.....	16	326
Keane, John Joseph....	16	326
Kellogg, Samuel Henry.	16	342
Kenrick, Francis Patrick	16	360
Kenrick, Peter Richard.	16	360
Ketcham, William Henry	16	383
Kidder, Daniel Parrish..	16	400
Kilham, Alexander.....	16	411
Kimball, Heber Chase..	16	414
King, James Marcus....	16	431
King, Jonas.....	16	431
King, Thomas Starr....	16	433
Kinsolving, George Herbert	16	451
Kirk, Edward Norris...	16	457
Kirkland, Samuel.....	16	458
Kocherthal, Joshua.....	17	756
Krol, Sebastian Jansen (Bastiaein Jansz Krol)	16	543
Kynett, Apha Jefferson.	16	564
Lalement, Jerôme.....	16	663
Lambert, Louis A.....	16	673
Langdon, Samuel	16	717
Lathrop, John (also Lathropp, Laythrop)..	16	764
Latimer, James Elijah..	16	765
Lavelle, Michael J.....	17	118
Lawrence, William.....	17	148
Lay, Henry Champlin..	17	156
Leacock, Hamble James	17	170
Lee, Alfred.....	17	217
Lee, Jesse.....	17	220
Lee, Luther.....	17	220
Leonard, Abiel	17	301
Leonard, Adna Wright..	17	301
Leonard, William Andrew	17	302
Leray, Francis Xavier...	17	311
Lines, Edwin Stevens...	17	459
Linsley, Joel Harvey...	17	467
Livingston, John H....	17	541
Longfellow, Samuel....	17	644
Lorimer, George Claude	17	662
Loughridge, Robert McGill	17	672
Lovejoy, Owen.....	17	695
Lowell, Charles.....	17	699
Lucas, George J.....	17	714
Luccock, George Naphtali	17	715
Luccock, Naphtali.....	17	723
MacLean, John	18	77
MacMullin, Wallace.....	18	84
McAfee, Joseph Ernest.	18	5
McAuley, Jerry.....	18	14
McBurney, Robert Raikes	18	16

Biographies — cont'd	Vol.	Page
McCabe, Charles Cardwell	18	16
McCloskey, William George	18	25
McConnel, Francis John	18	27
McCook, Henry Christopher	18	28
McCoy, Isaac	18	29
MacCracken, Henry Mitchell	18	30
McDonnell, Charles Edward	18	39
McDowell, William Fraser	18	42
McFarland, John Thomas	18	46
McFaul, James Augustine	18	46
McGlynn, Edward	18	49
McGready, James	18	50
McIlvaine, Charles Pettit	18	62
McKendree, William	18	66
McLaren, William Edward	18	75
McLeod, Alexander	18	79
McMillan, Thomas	18	84
McNicholas, John T	18	86
McQuaid, Bernard John	18	90
McTyeire, Holland Nimmons	18	91
McVickar, William Neilson	18	92
Madison, James	18	98
Mafflit, John Newland	18	112
Makemie, Francis	18	157
Mallalieu, William Francis	18	166
Manning, William Thomas	18	230
Martin, Alexander Carson	18	336
Marty, Martin	18	343
Marvin, Enoch Mather	18	345
Mason, Francis	18	379
Mason, John Mitchell	18	381
Mather, Richard	18	436
Matthews, Paul	18	444
Mattison, Hiram	18	446
Mayhew, Experience	18	466
Mayhew, Jonathan	18	466
Meade, William	18	475
Megapolensis, Joannes	18	594
Membre, Zenobius	18	612
Merrill, Selah	18	680
Messmer, Sebastian Gibhard	18	694
Michaelius, Jonas	19	13
Milburn, William Henry	19	55
Mills, Benjamin Fay	19	127
Mills, Samuel John	19	129
Millspaugh, Frank Rosebrook	19	129
Mitchell, Walter	19	269
Moeller, Henry	19	290
Monaghan, John James	19	335
Montgomery, George	19	407
Moody, Dwight Lyman	19	422
	23	448
Moore, Benjamin	19	428
Moore, David Hastings	19	429
Moreland, William Hall	19	446
Morris, Benjamin Wistar	19	473
Morrison, James Dow	19	480
Morrison, Henry Clay	19	480
Morrison, Theodore Nevin	19	481
Morse, Jedidiah	19	483
Morse, Richard Cary	19	483
Morton, Charles	19	489
Moss, Lemuel	19	508
Moxom, Philip Stafford	19	541
Mudge, Enoch	19	548
Muehlenberg, Henry Melchior	17	756
Muhlenberg, Frederick Augustus Conrad	19	549
Muhlenberg, Gotthilf Henry Ernst	19	549
Muhlenberg, Heinrich Melchior	19	450
Muhlenberg, William Augustus	19	550
Mundelein, George William	19	564
Murlin, Lemuel Herbert	19	607
Murray, John	19	610
	27	569
Nast, William	19	719
Nelson, Cleland Kinloch	20	63
Neumann, John Nepomucene	20	98
Newman, John Philip	20	277
Newton, Richard Heber	20	291
Niccolls, Samuel Jack	20	310
Nichols, William Ford	20	318
Nicholson, Isaac Lea	20	319
Ninde, William Xavier	20	350
Noble, Frederick Alphonso	20	385
North, Frank Mason	20	409
Northrop, Harry Pinckney	20	430
Noyes, John Humphrey	20	480
Nuelsen, John Louis	20	482
Occom, Samson	20	555
O'Connell, William Henry	20	571
O'Connor, John Joseph	20	572
O'Farrell, Michael Joseph	20	596
Ogden, Rollo	20	605
O'Gorman, Thomas	20	608
O'Kelly, James	20	635
Oldham, William Fitzjames	20	657
Olin, Stephen	20	662
Olmsted, Charles Sanford	20	669
Olmsted, Charles Tyler	20	669
Osgood, Samuel	21	19
Otterbein, Philip William	21	49
	27	302
Oviedo, Juan Antonio	21	62
Packard, Joseph	21	91
Pardow, William O'Brien	21	296
Park, Edward Amasa	21	324
Parker, Edwin Wallace	21	326
Parker, Joel	21	328
Parker, Linus	21	328
Parker, Theodore	21	329
Parkhurst, Charles Henry	21	332
Parks, Leighton	21	333
Parris, Samuel	21	343
Pattison, Robert Everett	21	410
Pattison, Thomas Harwood	21	411
Patton, Francis Landey	21	411
Payne, Charles Henry	21	432
Payson, Edward	21	435
Peck, Jesse Truesdell	21	463
Peirce, Bradford Kinney	21	474
Pendleton, William Nelson	21	502
Penick, Charles Clifton	21	508
Penn, William	21	512
Pentecost, George Frederick	21	555
Pepper, George Dana Boardman	21	564
Perkins, Justin	21	600
Perry, William Stevens	21	607
Peterkin, George William	21	662
Peters, Madison Clinton	21	663
Peters, Samuel	21	664
Phelan, Richard	21	717
Phillips, Philip	21	763
Phillips, Samuel	21	763
Phœbus, William	21	785
Pierce, George Foster	22	75
Pierce, Lovick	22	75
Pierpont, John	22	76
Pilmoor, Joseph	22	88
Pitaval, John Baptist	22	119
Pitzer, Alexander White	22	135
Porter, James	22	391
Post, George Edward	22	423
Potter, Alonzo	22	451
Potter, Eliphalet Nott	22	452
Potter, Henry Codman	22	452
Potter, Horatio	22	452
Pratt, Orson	22	512
Pratt, Parley Parker	22	512
Prendergast, Edmond Francis	22	532
Priber, Christian	22	567
Prime, Edward Dorr Griffin	22	577
Prindle, Cyrus	22	589
Provoost, Samuel	22	710
Purcell, John Baptist	23	24
Purves, George Tyboat	23	31
Quigley, James Edward	23	90
Rainsford, William Stephen	23	194
Randolph, Alfred Magill	23	208
Rankin, Jeremiah Eames	23	213
Raymond, Andrew Van Vranken	23	239
Raymond, Miner	23	240
Rhees (Benjamin), Rush	23	456
Rice, Luther	23	486
Richmond, Charles Alexander	23	499
Richter, Henry Joseph	23	507
Rigdon, Sidney	23	518
Riggs, Elias	23	518
Riggs, Stephen Return	23	519
Riordan, Patrick William	23	534
Robbins, Wilford Lash	23	565
Roberts, Benjamin Titus	23	567
Roberts, Robert Richford	23	570
Roberts, William Henry	23	570
Robinson, Stuart	23	583
Romeyn, John Brodhead	23	674
Ronayne, Maurice	23	677
Rouquette, Adrien Emmanuel	23	722
Russell, Charles Taze	23	784
Russell, Howard Hyde	23	785
Ryan, Abram Joseph	24	70
Ryan, James	24	70
Ryan, Patrick John	24	70
Ryder, William Henry	24	71
Sample, Robert Fleming	24	225
Sandford, Frank W	24	255
Sankey, Ira D	23	448
Sawyer, Thomas Jefferson	24	339
Scanlan, Lawrence	24	353
Scannell, Richard	24	353
Scarborough, John	24	354
Schenck, William Edward	24	367
Schlatter, Michael	24	375
Schweinitz, Edmund Alexander	24	411
Schweinitz, Louis David von	24	411
Scott, Levi	24	440
Scott, Orange	24	440
Scudder, Henry Martyn	24	456

Biographies — cont'd	Vol.	Page
Seabury, Samuel	24	478
Seabury, William Jones	24	479
Searle, George Mary	24	489
Sears, Barnas	24	489
Sears, Edmund Hamilton	24	489
Sellew, Walter Ashbel	24	544
Sessums, Davis	24	606
Seton, Eliza Ann Bayley	24	607
Seton, Robert	24	607
Seymour, George Franklin	24	633
Shahan, Thomas Joseph	24	641
Shanklin, William Arnold	24	658
Shaw, John Balcom	24	665
Shaw, John William	24	665
Sheedy, Rev. Morgan M.	24	671
Shelton, Don Odell	24	691
Shutter, Marion Daniel	24	761
Simpson, Matthew	25	29
Smith, Alexander Coke	25	112
Smith, Benjamin Bosworth	25	113
Smith, Eli	25	115
Smith, Fred B	25	116
Smith, Frederick M	25	117
Smith, Henry Preserved	25	120
Smith, Joseph	25	123
Smith, Joseph Fielding	19	464
	25	124
Smith, Judson	25	125
Smith, Samuel Stanhope	25	127
Smith, Uriah	25	128
Smohalla	25	134
Smoot, Reed	19	465
	25	139
Smyth, Egbert Coffin	25	141
Snow, Lorenzo	19	464
	25	148
Soule, Joshua	25	271
Southworth, Franklin Chester	25	317
Spalding, John Franklin	25	342
Spalding, John Lancaster	25	342
Spalding, Martin John	25	342
Spear, Samuel Thayer	25	365
Speer, Robert Elliot	25	385
Spencer, Claudius Buchanan	25	389
Sprague, William Buell	25	450
Spring, Gardiner	25	451
Stang, William	25	482
Starkey, Thomas Alfred	25	495
Steele, Daniel	25	607
Stelzle, Charles	25	613
Sterrett, James Macbride	25	633
Stevenson, Joseph Ross	25	640
Stewart, George Black	25	644
Stiles, Ezra	25	648
Stillman, Samuel	25	650
Stockton, Thomas Hewlings	25	663
Stoever, Martin Luther	25	663
Stokes, Anson Phelps	25	669
Stone, Ellen Maria	25	678
Stone, John Timothy	25	678
Storrs, Richard Salter	25	699
Stuart, Charles Macaulay	25	745
Stuck, Hudson	25	750
Summers, Thomas Osmund	26	14
Sunday, William Ashley	26	30
Swensson, Carl Aaron	26	128
Swing, David	26	141
Talbot, Ethelbert	26	220
Talbot, John	26	221
Talmage, Thomas De Witt	26	231
Tanner, Benjamin Tucker	26	245
Taylor, Edward Thompson	26	297
Taylor, John	19	464
	26	300
Taylor, Nathaniel William	26	301
Taylor, William	26	302
Taylor, William Mackergo	26	302
Terry, Benjamin Stuytes	26	449
Thoburn, James Mills	26	569
Thomas, Jesse Burgess	26	573
Thompson, Augustus Charles	26	576
Tiffany, Charles Comfort	26	620
Tipple, Ezra Squier	26	643
Torrey, Reuben Archer	26	711
Townsend, Luther Tracy	26	727
Tracy, Joseph	26	747
Tuttle, Daniel Sylvester	27	212
Tyler, Bennet	27	231
Tyng, Stephen Higginson	27	235
Underwood, Horace Grant	27	275
Upham, Charles Wentworth	27	584
Upham, Samuel Foster	27	584
Vail, Stephen Montford	27	641
Vail, Thomas Hubbard	27	641
Van Buren, James Hearrt	27	663
Van Dyck, Cornelius Van Allen	27	671
Van Dyke, Paul	27	671
Van Lennep, Henry John	27	672
Van Raalte, A. C	27	673
Varick, James	18	726
Vassar, John Ellison	27	695
Vincent, Boyd	28	95
Vincent, John Heyl	28	96
Vinton, Alexander Hamilton	28	104
Vinton, Francis	28	104
Vos, Geerhardus	28	187
Walther, Karl Ferdinand Wilhelm	17	756
	28	250
Waddel, James	28	204
Wainwright, Jonathan Mayhew	28	214
Waite, Henry Randall	28	215
Walden, John Morgan	28	220
Walden, Treadwell	28	220
Waldo, Daniel	28	223
Walker, James	28	228
Walker, James Barr	28	228
Walker, Timothy	28	230
Walker, William David	28	231
Walworth, Clarence	21	420
Ware, Henry	28	701
Ware, Henry, Jr	28	702
Warren, Henry White	28	708
Watson, Alfred Augustus	29	108
Weaver, Jonathan	29	135
Webb, Thomas	29	143
Weed, Edwin Gardner	29	155
Weldensall, Robert	29	657
Weller, Reginald Heber	29	178
Wells, Lemuel Henry	29	186
Wheelock, Eleazar	29	253
Wheelwright, John	29	253
Whelan, Richard Vincent	29	254
Whipple, Henry Benjamin	29	256
Whitaker, Alexander	29	262
Whitaker, Nathaniel	29	263
Whitaker, Ozie William	29	263
White, John Hazen	29	267
White, William	29	269
Whitehead, Cortlandt	29	277
Whitsitt, William Heth	29	285
Whittingham, William Rollinson	29	287
Wilbur, John	29	301
Wilkinson, Jemima	29	322
Williams, Arthur Llewellyn	29	338
Williams, Channing Moore	29	339
Williams, Eleazer	29	339
Williams, Gershom Mott	29	340
Williams, John	29	341
Williams, John Joseph	29	342
Williams, Roger	27	469
	29	343
Williams, Samuel Wells	29	345
Wilson, Alpheus Waters	29	356
Wilson, Gilbert Lord	29	358
Wilson, John	29	361
Wilson, Luther Barton	29	362
Wilson, William Dexter	29	363
Winebrenner, John	29	394
Winslow, Miron	29	401
Wise, John	29	427
Witherspoon, John	29	432
Wood, James Frederick	29	473
Woodruff, James	29	497
Woodruff, Wilford	19	464
	29	498
Woolman, John	29	507
Worcester, Elwood	29	510
Worcester, Samuel Austin	29	511
Wovoka	29	564
Young, Brigham	19	464
	29	648
Young, Robert Anderson	29	651
Young, Samuel Hall	29	652
Zeisberger, David	29	695
Zimmerman, Jeremiah	29	709
Zubly, John Joachim	29	735
Zwemer, Samuel Marinus	29	742

OTHER COUNTRIES

	Vol.	Page
Abbot, George	1	14
Abelard, Pierre	1	35
	2	114
Abernethy, John	1	39
Abraham A Sancta Clara	1	48
Absalon	1	51
	2	082
Acacius	1	60
Adalbert	1	114
Adalbert The Great	1	114
Adam of St. Victor	1	117
Adams, Thomas	1	126
Adamson, Patrick	1	128
Addai	1	130
Adrian I. Pope	1	153
Adrian II, Pope	1	153
Adrian III, Pope	1	154
Adrian IV, Pope	1	154
Adrian V, Pope	1	154
Adrian VI, Pope	1	154
Aërius	1	179
Aëtius	1	204
Affre, Denis Auguste	1	206
Agliardi, Antonio	1	238
Aglipay, Gregorio	1	238
Agricola, Johann	1	242
Alacoque, Marguerite Marie	1	307
Albanel, Charles	1	324
Aldebert	1	114
Aldhelm	1	355
Alexander I, Pope	1	360
Alexander II, Pope	1	360
Alexander III, Pope	1	360
Alexander IV, Pope	1	361

Biographies — cont'd	Vol.	Page
Alexander V, Pope	1	361
Alexander VI, Pope	1	361
Alexander VII, Pope	1	361
Alexander VIII, Pope	1	361
Alleine, Richard	1	412
Allouez, Claude	1	424
Amiot, Jean Joseph Marie	1	575
Amsdorf, Nicolaus	1	591
Amyraut, Moïse	1	598
Anastasius, Pope	1	625
Anchieta, José de	1	652
Ancillon, Charles	1	654
Anderson, David	1	658
Anderson, John	1	659
Andrea, Jakob	1	671
Andrew of Crete	1	674
Andrew of Jerusalem	1	674
Andrewes, Lancelot	1	674
Annesley, Samuel	1	718
Antonelli, Giacomo	2	45
Anschar	2	6
Apollinaris	2	63
Aquila, Johann Kaspar	2	113
Aquinas, Thomas	2	113
Arius	2	250
	14	737
Arminius, Jacobus	2	273
Arnauld, Antoine	2	369
	15	615
Arnd, Johann	2	310
Arndt, Johann	2	310
Arnold of Brescia	2	319
Arnot, William	2	319
Arnulf	10	482
Arundel, Thomas	2	370
Ascough, Anne	2	400
Askew, Anne	2	400
Astie, Jean Frédéric	2	447
Atterbury, Francis	2	521
Audæus	2	584
Aulneau De La Touche, Jeanne Pierre	2	552
Aurifaber, Joannes	2	554
Avila, Juan d'	2	679
Axel	2	682
Aylmer, John	2	684
Azeredo e Castro, João Paulino d'	2	688
Bagot, Richard	3	43
Bahrdt, Karl Friedrich	3	48
Baillargeon, Charles François	3	52
Baillie, Robert	3	53
Baius, Michael	3	57
Baker, David (Augustine)	3	59
Baldwin, Maurice Scollard	3	77
Ball, John	3	93
Balnaves, Henry	3	111
Baltzer, Wilhelm Eduard	3	123
Bancroft, Richard	3	135
Banez, Dominic	3	140
Barclay, James	3	242
Barclay, John	3	242
Barclay, Robert	3	242
Bardesanes	3	245
Barlaam	3	256
Barletta, Gabriello	3	257
Barrowe, Henry	3	282
Barrow, Henry	3	282
Barry, William Francis	3	286
Barsumas	3	287
Barsuma	3	287
Bartholomew	3	291
Barton, Elizabeth	3	297
Bashaw, Edward	3	306
Basnage, Benjamin	3	313
Basnage, Jacques	3	313
Basnage, Nicolas	3	313

Biographies — cont'd	Vol.	Page
Bastwick, John	3	324
Batt, John Herridge	3	340
Bausset, Louis François	3	351
Baxter, Richard	3	357
Beaton, David	3	387
Beaufort, Henry	3	389
Beaumont, Joseph	3	392
Becket, Thomas à	3	406
Beckx, Peter Johann	3	408
Bedmar, Alfonso de la Cueva	3	416
Bégin, Louis Nazaire	3	444
Beissel, Johann Conrad	3	450
Belsham, Thomas	3	494
Benedict I, Pope	3	504
Benedict II, Pope	3	504
Benedict III, Pope	3	504
Benedict IV, Pope	3	504
Benedict V, Pope	3	504
Benedict VI, Pope	3	504
Benedict VII, Pope	3	504
Benedict VIII, Pope	3	504
Benedict IX, Pope	3	504
Benedict X, Pope	3	504
Benedict XI, Pope	3	505
Benedict XII, Pope	3	505
Benedict XIII, Pope	3	505
Benedict XIV, Pope	3	505
	15	530
Benedict XV, Pope	3	505
	17	133
Benedict of Nursia	19	340
Benigni, Umberto	3	516
Benoist, René	3	522
Benson, Edward White	3	523
Bentivoglio, Cornelio	3	526
Berengarius of Tours	3	540
Bernard, Alexis Xyste	3	568
Bernardin of Siena	3	571
Berquin, Louis de	3	577
Berry, Joseph Flintoft	3	578
Bersier, Eugène Arthur François	3	579
Berulle, Pierre de	3	582
Bessarion, Johann	3	586
Bethune, Alexander Neil	3	593
Beveridge, William	3	602
Bickersteth, Edward	3	680
Biddle, John	3	686
Biet, Antoine	3	692
Bilney, Thomas	3	709
Bilson, Thomas	3	709
Binney, Hibbert	3	716
Binney, Thomas	3	716
Birague, René de	3	723
Biscop, Benedict	3	506
Blaarer, Ambrosius	4	71
Blackadder, John	4	89
Blair, Hugh	4	54
Blanche, Gustave	4	60
Blandrata, Giorgio	4	61
Blarer, Ambrosius	4	71
Blaurer, Ambrosius	4	71
Blavatsky, Helena Petrovna	4	72
Blondel, David	4	104
Bloomfield, William Ernest	4	116
Boardman, Richard	4	136
Boil	4	164
Bolsec, Jérôme Hermès	4	195
Bois, Jean du	4	174
Boscius	4	174
Bosco, Joannes à	4	174
Bompas, William Carpenter	4	202
Bond, William Bennett	4	209
Boniface	4	216
	10	38
Boniface I, Pope	4	216
Boniface II, Pope	4	216

Biographies — cont'd	Vol.	Page
Boniface III, Pope	4	216
Boniface IV, Pope	4	216
Boniface V, Pope	4	216
Boniface VI, Pope	4	216
Boniface VII, Pope	4	216
Boniface VIII, Pope	4	216
Boniface IX, Pope	4	217
Bonner, Edmund	4	219
Bonzano, Giovanni	4	223
Booth, Abraham	4	251
Booth, William	4	253
Booth (William), Bramwell	4	253
	24	215
Bora, Katharina von	4	262
Borgia, Cesare	4	270
Borgia, Francisco	4	271
Borgia, Stefano	4	271
Borromeo, Carlo	4	283
Borromeo, Federigo	4	283
Bossuet, Jacques Bénigne	4	291
Bottari, Giovanni Gaetano	4	315
Boucher, Jonathan	4	321
Bourdaloue, Louis	4	349
Bourgeoys, Marguerite	4	350
Bourget, Ignace	4	351
Bourignon, Antoinette	4	351
Bourne, Francis, Cardinal	4	352
Bourne, Hugh	4	352
Bouvet, Joachim	4	356
Bower, Archibald	4	362
Bowles, Richard Finch	4	364
Boyd, Zachary	4	373
Bradford, John	4	385
Bradford, Samuel	4	385
Bradley, George Granville	4	388
Bray, Thomas	4	423
Brebeuf, Jean de	4	455
Breckling, Friedrich	4	458
Brenz, Johann	4	468
Bressani, Francesco Giuseppe	4	470
Breuil, Abbé	18	187
Briand, Jean Olivier	4	488
Bridgewater, Francis Henry Egerton	4	531
Brienne, John of	4	534
Briggs, William	4	537
Brogny, Jean Allarmet	4	574
Brousson, Claude	4	601
Brown, David	4	604
Brown, John	4	606
Bruchési, Paul	4	626
Brunne, Robert of	4	635
Bruyas, Jacques	4	646
Brzozowski, Theodor	4	651
Bucer, Martin	4	655
Buchan, Elspeth	4	656
Buchanan, Claudius	4	656
Bugenhagen, Johann	4	699
Bull	4	164
Bullinger, Heinrich	5	16
Bunting, Jabez	5	27
Bunting, William Maclardie	5	27
Burder, George	5	34
Burgess, Daniel	5	38
Burke, Thomas Nicholas	5	48
Burns, William Chalmers	5	62
Burwash, Nathaniel	5	70
Butler, William	5	82
Butler, William Archer	5	82
Butzer, Martin	4	655
Cærularius, Michael	5	138
Caird, John	5	148

Biographies — cont'd	Vol.	Page
Cajetan, Tommaso de Vio	5	152
Calas, Jean	5	156
Calixtus I, Pope	5	223
Calixtus II, Pope	5	223
Calixtus III, Pope	5	224
Calvin, John	2	516
	5	237
	17	659
	22	686
	23	303
Cambier, Emeri Henri Célestin	5	245
Cameron, John	5	263
Cameron, Richard	5	264
Campbell, Reginald John	5	280
Campeggi, Lorenzo	5	283
Campeggio, Lorenzo	5	283
Campen, Jacob de	16	288
Camphuysen, Dirck Rafelsz	5	284
Campion, Edmund	5	284
Candlish, Robert Smith	5	498
Canisius, Petrus	5	500
Capel, Thomas John	5	550
Capisucchi, Paolo	5	558
Capito, Wolfgang Fabricius	5	564
Caprara, Giambattista, Cardinal	5	570
Carayon, Auguste	5	586
Carey, William	5	607
Cargill, Donald	5	607
Carbell, Étienne de	5	608
Carlstadt, Andreas Rudolf Bodenstein	5	623
Carlyle, Alexander	5	623
Carman, Albert	5	627
Carpenter, Lant	5	652
Carpzov, Johann Benedict	5	660
Cartwright, Thomas	5	687
	23	29
Carvajal, Gaspar de	5	688
Casey, Timothy	5	701
Cavalier, Jean	5	266
Celestine II, Pope	6	168
Celestine III, Pope	6	168
Celestine IV, Pope	6	168
Cerinthus	6	225
Chabanel, Noel	6	240
Challoner, Richard	6	254
Chalmers, James	6	255
Craumonot, Pierre-Joseph	6	366
Chaumonot, Pierre Marie	6	366
Cheverus, Jean L. A. M. L. de	6	430
Cheyne, Thomas Kelly	6	434
Chillingworth, William	6	512
Chiniquy, Charles Pascal Telesphore	6	559
Chown, Samuel Dwight	6	596
Christian I	6	600
Clarke, Adam	7	45
Clarke, William Robinson	7	49
Cleary, James Vincent	7	78
Clement I, Pope	7	85
Clement II, Pope	7	85
Clement III, Pope	7	85
Clement IV, Pope	7	85
Clement V, Pope	7	85
Clement VI, Pope	7	85
Clement VII, Pope	7	86
Clement VIII, Pope	7	86
Clement IX, Pope	7	86
Clement X, Pope	7	86
Clement XI, Pope	7	86
Clement XII, Pope	7	86
Clement XIII, Pope	7	86
Clement XIV, Pope	7	86

Biographies — cont'd	Vol.	Page
Clifford, John	7	103
Cloutier, François Xavier	7	133
Cody, Henry John	7	198
Colenso, John William	7	244
Colet, John	7	249
Collier, Jeremy	7	265
Colonna, Pompeo	7	299
Columba of Iona	7	333
	25	63
Columbanus	7	334
	24	620
Compton, Henry	7	452
Consalvi, Ercole	7	536
Constantine I, Pope	7	574
Conybeare, John	7	619
Cook, John	7	622
Córdoba, Pedro de	7	688
Cornelius, Pope	7	710
Cortez	19	239
Court, Antoine	8	114
Craig, John	8	150
Cranmer, Thomas	8	159
Cridge, Edward	8	192
Cromwell, Thomas	8	225
Crowther, Samuel Adjai	8	252
Crummell, Alexander	8	255
Cullen, Paul	8	295
Cyprianus, Thasius Cæcilius	8	368
Cyrillus	8	373
Dablon, Claude	8	386
Dalberg, Karl Theodor	8	413
Damasus II, Pope	8	430
Damianus, Petrus	8	430
Damien De Veuster, Joseph	8	431
Darboy, Georges	8	471
Darby, John Nelson	8	472
	22	264
David, Christian	8	500
Davidson, Randall Thomas	8	505
Davies, T. Witton	8	506
De Bay, Michael	3	57
De Koven, James	8	604
Dévay, Mátyás Biró	9	36
Dickins, John	9	83
Dickinson, Peard	9	84
Dioscorus	9	138
Dioscurus	9	138
Dobrizhoffer, Martin	9	214
Doddridge, Philip	9	219
Dolet, Étienne	9	235
De Casson, Dollier	9	236
Dominis, Marco Antonio de	9	248
Donne, John	9	258
Dontenwill, Augustin	9	260
Donus, Pope	9	260
Douglas, John	9	279
Drelincourt, Charles	9	325
Druillettes, Gabriel	9	352
Du Bellay, Jean	9	368
Dubois, Guillaume	9	374
Dubois, Jean Antoine	9	374
Duff, Adam	27	293
Duff, Alexander	9	386
Dumoulin, John Philip	9	399
Dunn, Andrew Hunter	9	406
Dunstan	9	408
	26	438
Dupanloup, Félix Antoine Philibert	9	409
Duperron, Jacques Davy	9	410
Duprat, Antoine	9	414
Durandus, Gulielmus	9	417
Duvergier De Hauranne, Jean	9	443
Du Vernet, Frederick Herbert	9	444
Eadmer	9	472

Biographies — cont'd	Vol.	Page
Eckhart, Johannes	9	545
Edner	9	472
Egede, Hans	9	721
Egede, Paul	9	721
Elphinstone, William	10	265
Embury, Philip	10	285
	18	723
Emser, Hieronymus	10	310
Ennodius, Magnus Felix	10	392
Entwistle, Joseph	10	404
Eon De L'Etoile	10	408
Eon, De Stella	10	408
Episcopius, Simon	10	430
Ernulf	10	482
Erskine, Ebenezer	10	485
	13	231
Erskine, John	10	485
Escoiquiz, Juan	10	496
Eudes, Jean	10	564
Eudo De Stella	10	408
Eugenius	10	572
Eugenius II	10	572
Eugenius III	10	572
Eugenius IV	10	572
Eugippius	10	572
Eugyppius	10	572
Eulalia	10	573
Eulalius	10	573
Eunomius	10	575
Eusebius of Emesa	10	585
Eusebius, Hieronymus Sophronius	16	26
Eusebius of Nicomedia	10	585
Eustachius or Eustathius	10	585
Eustathius	10	585
Eutyches	10	587
	14	737
Evans, Christmas	10	591
Evans, Evan Heber	10	591
Everett, James	10	598
Eymericus, Nicolas	10	684
Faber, Pierre	17	233
Fabri, Felix	10	695
Fabri, Johannes	10	695
Fagius, Paul	10	710
Falconio, Diomede	10	727
Falkner, Thomas	10	731
Fallon, Michael Francis	10	734
Farel, Guillaume	11	18
Farrar, Adam Story	11	47
Faustus of Riez	11	68
Favre, Pierre	17	233
Feckenham	11	77
Fecknam, John de	11	77
Felix II	11	103
Felix III	11	103
Felix IV	11	103
Felix V	11	103
Felix, Antonius	11	103
Feller, Henrietta	11	104
Fénelon, François de Salignac de la Mothe	11	115
Ferrar, Nicholas	11	135
Ferrata, Domenico	11	138
Fesch, Joseph	11	152
Fisher, John	11	281
Fitzralph, Richard	11	302
Flambard, Ralph	11	328
Flambard, Ranulph	11	328
Flavian II	11	337
Flechere, John de la	11	349
Flechier, Valentin Esprit	11	341
Fleetwood, William	11	342
Fleming, Richard	11	345
Flemming, Richard	11	345
Flemmyng, Richard	11	345
Flemyng, Richard	11	345
Fletcher, John	11	349
Fleury, André Hercule de	11	350
Fliedner, Theodor	11	352

Biographies — cont'd	Vol.	Page
Folleville, Gabriel Guyot de	11	423
Formosus, Pope	11	492
Förster, Heinrich	11	495
Fulco of Neuilly	11	533
Fox, George	11	563
Francke, August H.	11	762
Fraser, James	12	22
Frayssinous, Denis Antoine Luc, Count de	12	29
Fremantle, William Henry	12	58
Fritz, Samuel	12	113
Fulbert	12	151
Fulford, Francis	12	152
Gagarin, Ivan Sergeyevich	12	225
Galimberti, Luigi	12	239
Galinée, René de Brehant de	12	239
Gansevoort, Johan Wessel	12	275
Garnier, Charles	12	295
Garvie, Alfred Ernest	12	301
Gataker, Thomas	12	335
Gaubil, Antoine	12	338
Gaussen, Louis	12	343
Gauthier, Charles Hughes	12	343
Geddie, John	12	354
Gee, Thomas	12	355
Geiler Von Kaysersberg, Johann	12	360
Geissel, Johannes von	12	360
Gelasius II (Giovanni di Gaeta)	12	360
Genga, Annibale della	17	294
George of Cappadocia	12	480
George, Duke of Saxony	12	476
Geraldini, Allesandro	12	492
Gerard, Thom	12	494
Gerson, Jean Charlier de	12	624
Gilpin, Bernard	12	657
Glas, John	12	681
Gobat, Samuel	12	742
Goch, Johannes von	12	743
Godfrey of Bouillon	12	746
Gogerly, Daniel John	13	7
Golubovich, Girolamo	13	40
Goldschmidt, Johann	2	554
Gomarus, Francis	13	40
Gore, Charles	13	64
Gregg, William	13	443
Gregoras, Nicephorus	13	443
Gregory V	13	452
Gregory VI, Pope	13	452
Gregory VII, Pope	13	453
	14	328
Gregory VIII	13	454
Gregory IX	13	454
Gregory X	13	454
Gregory XI	13	455
Gregory XII	13	455
Gregory XIII	13	455
Gregory XIV	13	456
Gregory XV	13	456
Gregory XVI	13	456
Gregory, Benjamin	13	456
Gregory, Robert	13	458
Grenfell, George	13	460
Grenfell, Wilfred Thomason	13	461
Griffith, John	16	157
Groete, Gerhard or Gerardus	13	485
Groot, Gerhard or Gerardus	13	485
Groote, Gerhard or Gerardus	13	485
Grosseteste, Robert	13	488
Gruscha, Anton Joseph	13	505
Guibert	13	531
Guiscard, Robert	23	567
Gumilla, José	13	546
Günther, Anton	13	573
Gützlaff, Karl Friedrich August	13	583
Guyon, Jeanne-Marie Bouvier de la Motte	13	584
Haldane, Robert	13	630
Hall, Christopher Newman	13	641
Hall, Joseph	13	643
Hall, Robert	13	643
Hamilton, Patrick	13	659
Hampden, Renn Dickson	13	667
Hannington, James	13	681
Hanno	13	681
Hark, Joseph Maximilian	13	709
Harmensen, Jacob	2	273
Hatto	13	757
Havestad, Bernard	13	767
Healy, John	14	35
Henry, Matthew	14	106
Hermes, Georg	14	130
Hildebert of Tours	14	185
Hildebrand	13	453
Hill, Rowland	14	189
Hoadley, Benjamin	14	300
Hole, Samuel Reynolds	14	316
Holmes, George	14	322
Honorius I	14	359
Honorius II	14	359
Honorius III	14	359
Honorius IV	14	359
Hooper, John	14	369
Hopkins, Ezekiel	14	372
Horsley, Samuel	14	416
Hosius of Cordova	14	426
Howley, Michael Francis	14	460
Huc, Évariste Régis	14	466
Hugo of Saint Victor	14	481
Huntingdon, Selina Hastings	14	516
Hus, Ján	8	379
Hus, John	11	193
	14	526
	19	440
Huss, John	14	526
Hutten, Ulrich von	14	530
Hüssgen, Johannes	20	590
Hyacinthe, Père	17	710
Ignatius of Antioch	14	671
Ingham, Benjamin	15	130
Inglis, John	15	131
Ingram, Arthur Foley Winnington	15	132
Innocent II, Pope	15	143
Innocent III, Pope	15	143
Innocent IV	15	144
Innocent V	15	144
Innocent VI	15	144
Innocent VII	15	144
Innocent VIII	15	144
Innocent IX	15	144
Innocent X	15	144
Innocent XI	15	144
Innocent XII	15	144
Innocent XIII	15	144
Irving, Edward	15	400
Isaac of Antioch	15	404
Isidorus	15	411
James, John Angell	15	605
Janow, Matthias von	15	614
Jansen, Cornelius	15	614
Jeffers, Wellington	15	767
Jerome of Prague	16	27
Jogues, Father	16	38
Jewel, John	16	49
Jimenes De Cisneros Francisco	29	599
Joachim de Floris	16	148
John II	16	154
John III	16	154
John IV	16	154
John V	16	154
John VI	16	155
John VII	16	155
John VIII	16	155
John IX	16	155
John X	16	155
John XI	16	155
John XII	16	155
John XIII	16	155
John XIV	16	155
John XVI	16	155
John XV	16	155
John XVII	16	155
John XVIII	16	155
John XIX	16	155
John XX	16	155
John XXI	16	155
John XXII	16	155
John XXIII	16	155
John of Damascus	10	39
	26	163
John of Salisbury	16	165
Joly, M	19	668
Jonas, Justus	16	195
Jones, George Heber	16	196
Joris, or Jorissoon, David	16	210
Judson, Adoniram	16	236
Julian (Cesarini), Cardinal	16	242
Julius I	16	243
Julius II	16	243
Julius III	16	243
Julius Echter von Mespelbronn	16	244
Junilius	16	250
Justin Martyr (Justinus Martyr)	16	267
Juxon, William	16	270
Kampen, Jacob de	16	288
Keith, George	16	336
Ken, Thomas	16	350
Kenmare, Mary Frances Cusack, Nun of	8	332
	16	354
Kentigern	19	505
Ketteler, Wilhelm Emanuel, Baron von	16	383
Klein, Félix	16	470
Kneipp, Sebastian	16	478
Knollys, Hanserd	16	480
Knox, John	13	298
	16	495
	22	686
Knox-Little, William John	16	498
Kögel, Rudolf	16	507
Kolping, Adolf	12	626
Kopp, Georg	16	520
Köstlin, Julius	16	533
Kopfel, Wolfgang Fabricius	5	564
La Salle, Jean Baptiste de	16	581
Lacordaire, Jean Baptiste Henri Dominique	16	635
Labadie, Jean de	16	587
Lalement, Gabriel	16	663
Lamberville, Jean de	16	674
Lanfranc, Archbishop	10	233
Lang, Cosmo Gordon	16	716
Lang, John Marshall	16	716
Langen, Joseph	16	718
Langevin, Jean François Pierre La Force	16	719
Langevin, Louis Philip Adelard	16	719
Lateau, Louise	16	761

Biographies — cont'd	Vol.	Page
Laud, William	17	99
Laurence, Richard	17	108
Laval-Montmorency, François Xavier de	17	114
Lavigerie, Charles M. A.	17	120
Law, Edmund	17	121
Law, William	17	122
Lawes, William George	17	143
Lainez, Diego	17	158
Laynez, Diego	17	158
Lazarus	17	159
Le Caron, Joseph	17	162
Le Clerq, Crétien	17	163
Le Jeune, Paul	17	165
Le Loutre, Louis Joseph	17	165
Le Moyne, Simon	17	167
Leathes, Stanley	17	201
Leband, John	17	205
Lecot, Victor L. S.	17	212
Ledochowski, Miecislas Halka	17	215
Ledochowski, Wlodimir	17	215
Ledochowski, Vladimir	17	215
Lee, James Prince	17	220
Lee, Samuel	17	224
Leete, Frederick De Land	17	230
Lefevre, Pierre	17	233
Leighton, Alexander	17	268
Leighton, Robert	17	269
Lemire, Jules Auguste	17	270
Leo I, the Great	11	197
	17	292
Leo II, Pope	17	293
Leo III, Pope	17	293
Leo IV, Pope	17	293
Leo V, Pope	17	293
Leo VI, Pope	17	293
Leo VII, Pope	17	293
Leo VIII, Pope	17	293
Leo X, Pope	17	294
Leo XI, Pope	17	294
Leo XII, Pope	17	294
Leo XIII	15	475
	17	293
Leontius of Byzantium	17	303
Léry, Jean de	17	313
Liberius, Pope	17	347
Liddon, Henry Parry	17	403
Littlejohn, Abram Newkirk	17	524
Livingstone, David	17	543
Logue, Michael	17	611
Löhe, Johann Konrad Wilhelm	17	612
Loisy, Alfred Firmin	17	613
Loménie De Brienne, Etienne Charles de	17	618
Lowth, Robert	17	705
Loyson, Charles	17	710
Lozano, Pedro	17	710
Lucius	17	718
Lucius I	17	718
Lucius II	17	718
Lucius III	17	718
Luckock, Herbert Mortimer	17	719
Lul, Raimon	17	727
Lull, Raimon	17	727
Lully, Raimon	17	727
Luna, Pedro de	17	738
Luther, Martin	2	516
	4	262
	17	751
	17	659
	22	685
	23	39
	23	541
	25	56
Lynch, John Joseph	17	777
Macdonell, Alexander	18	38
McDonell, Daniel James	18	38
Mac Leod, Norman	18	80
McAuley, Catherine	18	14
McDougall, George Millward	18	39
McDougall, John	18	40
Machray, Robert	18	61
Mackenzie, Charles Frederick	18	67
Maclagan, William Dalrymple	18	74
Maclay, Robert Samuel	18	76
Madeleine, Marie Angélique	18	97
Magdalen	18	113
Malleus Monachorum	8	226
Manning, Henry Edward	18	230
Manning, Robert	4	635
Marcellus II	18	267
Marcoux, Joseph	18	274
Margarit, John	18	280
Marguerit, John	18	280
Marinus I	18	335
Marinus II	18	335
Marquette, Jacques	18	308
Marsden, Samuel	18	321
Martin II	18	335
Martin III	18	335
Martin IV	18	336
Martin V	18	336
Martinelli, Sebastiano	18	341
Martyn, Henry	18	343
Mary of the Incarnation	18	349
Mascron, Jules	18	375
Maskell, William	18	378
Massillon, Jean Baptiste	18	416
Matheson, Samuel Pritchard	18	436
Mathew, Theobald	18	436
Matthew	18	441
Mazarini, Giulio	18	470
Mazarin, Jules	18	470
Medici, Allessandro Ottaviano de'	17	294
Medici, Giovanni de'	17	294
	18	567
Melanchthon, Philip	17	659
	18	599
	22	586
Melchers, Paulus	18	603
Melchiades	19	132
Mercier, Desiré Joseph	18	666
Merry Del Val, Rafael	18	681
Methodius	8	373
Meyrick, Frederick	19	5
Miall, Edward	19	7
Middleton, Conyers	19	42
Milet, Pierre	19	125
Milicz, Johann	19	59
Militz, Johann	19	59
Millet, Pierre	19	125
Milner, John	19	131
Miltitz, Karl von	19	133
Moffat, Robert	19	291
Molay, Jacques	19	310
Molina, Alonso de	19	325
Molina, Louis	19	325
Molinos, Miguel de	19	326
Mollat, Guillaume Marie Charles Henri	19	326
Montanar, Valentine Hilaire	19	395
Moore, Henry	19	431
Moran, Patrick Francis	19	438
Morton, John	19	490
Morton, Thomas	19	491
Moule, Hanaley Carr Glynn	19	520
Mungo, Saint	19	565
Neal, Daniel	20	21
Nepomuk, Johann	20	78
Nestorius	14	737
	20	87
Newton, John	20	291
Nichiren, the Prophet	15	678
	20	311
Nicholas	20	312
Nicholas II	20	313
Nicholas III	20	314
Nicholas IV	20	314
Nicholas V	15	446
	20	314
Nicole, Pierre	20	328
Nikon	20	345
Nitzsch, Karl Immanuel	20	378
Noel, Baptist Wriothesley	20	388
Notker, Labeo	20	458
Novikh, Gregor	20	478
Obermaier, Father	18	187
O'Brien, Cornelius	20	545
Occam, or Ockham, William	20	555
Ochino, Bernardino	20	569
Œcolampadius	20	590
Oetinger, Friedrich Christoph	20	596
Olevianus, Kasper	20	600
Olier, Jean Jacques	20	661
Olivers, Thomas	20	666
O'Malley, Thaddeus	20	680
Origen	14	215
	20	808
Orosius	14	214
	21	9
Orozco y Jiménez, Francisco	21	9
Orth, Bertrand	21	12
Osiander, Andreas	21	20
Ouseley, Gideon	21	53
Owen, John	21	64
Oxenbridge, John	21	70
Paez, Alvarez	21	481
Palladius, Peter	15	329
	21	208
Parker, Matthew	21	320
Parsons, Robert	21	349
Pascal	15	616
Paschal I	21	364
Paschal II	21	364
Paschal III	21	364
Pashkoff, Vasili Alexandrovitch	21	366
Passaglia, Carlo	21	367
Patrick, Simon	21	403
Patteson, John Coleridge	21	409
Paul II	21	412
Paul III	21	412
Paul IV	21	412
Paul V	21	413
Paul of Samosata	21	414
Paulinus of Nola	21	420
Paulus, Heinrich Eberhardt Gottlob	21	422
Pecci, Joachim Vincent Raphael Lodovico	17	294
Pecock, Reginald	21	464
Pelagius I	21	480
Pelagius II	21	481
Pelagius	21	481
Perrin, Ernest L.	21	605
Perronet, Vincent	21	605
Persons, Robert	21	349
Peter of Blois	21	659
Peter the Hermit	21	660
Peter Lombard	21	660
Peter the Lombard	21	660
Peter Martyr	21	660
Peter the Venerable	21	661
Piccolomini, Æneas Sylvius	22	136

Biographies — cont'd	Vol.	Page
Piccolomini, Enea Silvio	15	446
	22	64
Pius I	22	136
Pius II	15	136
	22	136
Pius IV	22	136
Pius V	15	449
	22	136
Pieus VI	22	136
Pius VII	22	137
Pius VIII	22	137
Pius IX	22	137
Pius X	15	475
	17	133
	22	138
Plessis, Joseph Octave	22	246
Pole, Reginald	22	300
Ponce De León, Fray Luis de	22	346
Potter, John	22	452
Prideaux, Humphrey	22	571
Punshon, William	23	23
Pusey, Edward Bouverie	23	32
Quiroga, Vasco de	23	99
Rabelais, François	23	105
Ragueneau, Paul	23	134
Raikes, Robert	23	136
Rale, Sebastien	23	196
Ram, Thomas	23	199
Rampolla, Mariano	23	204
Ramsay, Andrew Michael	23	205
Rancé, Armand Jean le Bouthillier de	23	207
Rapp (Johann), George	23	218
Rasputin, Gregor	20	478
	23	222
Ravignan, Gustave Xavier Delacroix de	23	235
Ricci, Father	19	239
Rich, Mabel	26	562
Richelieu, Armand Jean du Plessis de, Cardinal	23	496
Richmond, Legh	23	499
Ridley, Nicholas	23	512
Robertson, Frederick William	23	571
Robertson, James	23	571
Robinson, John	23	581
Rogers, John	23	628
Romaine, William	23	640
Ronge, Johannes	23	677
Roscelin, Jean	23	691
Rose, Hugh James	23	693
Rous, Francis	23	722
Roussel, Gérard	23	727
Rousselin, Jean	23	691
Rucelin, Jean	23	691
Ruffo, Fabrizio	23	755
Rupp, Julius Augustus Leopold	23	770
Ruysbroek, Willem van	24	69
Ryerson, Adolphus Egerton	24	73
Ryle, John Charles	24	74
Scheverell, Henry	24	87
Sadoleto, Jacopo	24	101
Sæmund, Sigfússon	24	101
Sancroft, William	24	248
Sandeman, Robert	24	253
Sartorius, Ernst	16	360
Satolli, Francesco	24	312
Saurin, Jacques	24	320
Savonarola, Girolamo	11	193
	15	446
	24	329
Sbaretti, Donatus	24	345
Schaal, Father Adam	19	239
Schwarzerd, Philipp	18	599
Schwartz, Christian Friedrich	24	410
Schwarz, Berthold	24	410
Schwenkfeld, Kaspar von	24	411
Secker, Thomas	24	511
Segarelli, Gerhard	2	70
Selwyn, George Augustus	24	545
Sergius I	24	592
Sergius II	24	592
Sergius III	24	592
Sergius IV	24	592
Servetus, Michael	27	293
Sharp, James	24	661
Shepard, Thomas	24	697
Sheridan, Thomas	24	768
Silvester II	25	20
Sixtus IV	25	64
Sixtus V	25	64
Snethen, Nicholas	18	725
Sorbon, Robert de	25	262
Soubirous, Marie-Bernarde	17	691
South, Robert	25	273
Spangenberg, Augustus Gottlieb	25	343
Spence, Henry Donald Maurice	25	389
Spener, Philip James	22	77
	25	395
Spotiswood, John	25	444
Spotswood, John	25	444
Spurgeon, Thomas	25	461
Spurgeon, Charles Haddon	25	461
Stalker, James	25	473
Steinhauer, Henry Bird	25	611
Stephen I	25	617
Stephen II	25	617
Stephen III	25	617
Stephen IV	25	617
Stephen V	25	617
Stephen VI	25	617
Stephen VII	25	617
Stephen VIII	25	617
Stephen IX	25	617
Stephen X	25	617
Still, John	25	648
Stillingfleet, Edward	25	649
Stöcker, Adolf	25	659
Stoecker, Adolf	16	100
Strachan, John	25	706
Strawbridge, Robert	18	723
Strossmayer, Joseph Georg	25	741
Stuart, Henry Benedict Maria Clement	25	745
Suarez, Francisco	18	181
	25	760
Sutherland, Alexander	26	103
Sweatman, Arthur	26	112
Swedenborg, Emanuel	26	112
Swift, Jonathan	26	128
Taché, Alexandre Antonin	26	202
Tait, Archibald Campbell	26	219
Tauler, Johann	26	284
Temple, Frederick	26	406
Tertullian	21	497
	26	452
Tetzel, Johann	26	456
Tezel, Johann	26	456
Thomasius, Gottfried	26	575
Thomson, Edward	26	582
Thomson, William	26	585
Tillotson, John	26	627
Tindal, Matthew	26	641
Torquemada, Thomás	26	708
Tristram, Henry Baker	27	78
Troward, Thomas	27	97
Tucker, Josiah	27	129
Urban II	27	589
Urban III	27	590
Urban IV	27	590
Urban V	27	590
Urban VI	27	590
Urban VII	27	590
Urban VIII	27	590
Usher, James	27	607
Ussher, James	27	607
Valdes (Valdesso Valdez), Juan de	27	642
Vanini, Lucilio	27	684
Vannutelli, Vincenzo	27	685
Vaughan, Bernard	27	699
Vaughan, Charles John	27	699
Vaughan, Herbert	27	700
Vaughan, John Stephen	27	700
Victor II	28	66
Victor III	28	66
Vicuna, Manuel	28	76
Vigilius	28	84
Vincent de Paul	24	617
	28	96
Vines, Richard	28	103
Virgil, Polydore	28	114
von Bora, Katharina	17	753
Voysey, Charles	28	194
Wadding, Luke	28	205
Wake, William	28	216
Waldenstrom, Peter	28	222
Waldus, Peter	28	221
Walsh, William	28	248
Ward, Bernard (Nicolas)	28	697
Ward, William	28	700
Ward, William George	28	700
Wardlaw, Ralph	28	701
Warham, William	28	704
Watson, Richard	29	110
Watts, Isaac	29	113
Weishaupt, Adam	29	173
Wernz, Francis Xavier	29	194
Wesley, Charles	18	721
	22	681
	29	195
Wesley, John	18	721
	22	681
	29	196
Whately, Richard	29	241
Whitefield, George	18	722
	29	274
Whitfeld, Henry	29	278
Whitfield, Henry	29	278
Whitgift, John	29	278
Wibert	18	531
Wickliff, John	29	294
Wiclef, John	29	294
Wiclif, John	29	294
Wicliffe, John	29	294
Wilberforce, Robert Isaac	29	300
Wilberforce, Samuel	29	300
William of Tyre	29	337
Williams, George	29	653
Williams, Sir George	29	339
Williams, John	29	341
Williams, John	29	341
Williams, Rowland	29	344
Wilson, Florence	29	357
Wilson, Henry Bristow	29	358
Wilson, John	29	361
Wilson, Thomas	29	362
Wiseman, Nicholas Patrick Stephen	29	428
Wishart, George	3	387
	29	428
Wiseheart, George	29	428
Wolff, Joseph	29	442
Wordsworth, Charles	29	515
Wordsworth, Christopher	29	515
Wycliff, John	29	294

Biographies — cont'd	Vol.	Page
Ximenes De Cisnéros, Francisco	29	599
Yates, William	29	617
Young, Robert	29	651
Zegedin, Stephen de	29	695
Zegers, Tacite Nicolas	29	695
Zeller, Eduard	29	697
Zezschwitz, Gerhard von	29	707
Ziegenbolz, Bartholomäus	29	707
Zingerle, Pius	29	713
Zinzendorf, Nicholas Ludwig, Count von	29	713
Ziska, John	29	715
Zockler, Otto	29	718
Zuinglius, Ulrich	29	742
Zumarraga, Juan de	29	739
Zuniga, Dionisio de	29	740
Zwingli, Huldreich	22	686
Zwingle, Ulrich	29	742
Zwinglius	17	659

Biographies of Writers on Theology, Religion and Kindred Topics. (For Biblical Scholars see Section on Bible.)

UNITED STATES

Biographies — cont'd	Vol.	Page
Abbot, Francis Ellingwood	1	14
Adams, John Coleman	1	123
Adams, Nehemiah	1	125
Aked, Charles Frederick	1	294
Alexander, Archibald	1	366
Alexander, James Waddell	1	366
Allen, Joseph Henry	1	415
Anderson, Rufus	1	661
Andrews, Lorrin	1	675
Andrews, Samuel James	1	675
Anthony, Alfred Williams	2	16
Atkinson, John	2	501
Atwood, Isaac Morgan	2	128
Bacon, Leonard Woolsey	3	24
Baker, Daniel	3	59
Ballou, Hosea	3	110
Bangs, Nathan	3	145
Barnes, Albert	3	266
Barrett, Benjamin Fisk	3	277
Barrows, Elijah Porter	3	284
Barrows, John Henry	3	284
Bartol, Cyrus Augustus	3	295
Bassett, James	3	318
Bausman, Benjamin	3	351
Beach, Charles Fisk	3	370
Beach, Harlan Page	3	371
Beard, Richard	3	380
Bedell, Gregory Thurston	3	413
Beecher, Charles	3	423
Bellamy, Joseph	3	480
Bennett, Sanford Fillmore	3	521
Bingham, Joel Foote	3	715
Bird, Frederic Mayer	3	726
Blackburn, William Maxwell	4	40
Bliss, Edwin Munsell	4	88
Bomberger, John Henry Augustus	4	201
Bowen, John Wesley Edward	4	362
Bradford, Amory Howe	4	385
Breckenridge, Robert Jefferson	4	457
Breed, David Riddle	4	459
Brewster, Chauncey Bunce	4	485
Brewster, William	4	486
Broadus, John Albert	4	569
Brown, Arthur Judson	4	603
Brown, Charles Reynolds	4	603
Brown, Phœbe Allen Hinsdale	4	610
Brownlee, William Craig	4	621
Buckley, James Monroe	4	668
Buel, Samuel	4	683
Burrage, Henry Sweetser	5	65
Burrell, David James	5	65
Burton, Marion Le Roy	5	68
Bushnell, Horace	5	74
Callender, John	5	227
Candler, Warren Akin	5	497
Carroll, John Joseph	5	673
Chadwick, John White	6	243
Channing, William Ellery	6	290
Chapin, Edwin Hubbell	6	296
Chauncey, Charles	6	367
Cheever, George Barrell	6	375
Clark, Francis Edward	7	41
Clark, Isaac	7	42
Clarke, James Freeman	7	47
Clifford, Cornelius	7	102
Coe, George Albert	7	199
Coleman, Caryl	7	243
Collyer, Robert	7	273
Conway, Moncure Daniel	7	617
Cook, Joseph	7	622
Cope, Henry Frederick	7	646
Coppens, Charles	7	651
Coxe, Arthur Cleveland	8	141
Crafts, Wilbur Fisk	8	149
Crooker, Joseph Henry	8	226
Crosby, Frances Jane Van Alstyne	8	228
Croswell, Harry	8	243
Crothers, Samuel McChord	8	243
Currier, Charles Warren	8	314
Curtis, Olin Alfred	8	317
Cuyler, Theodore Ledyard	8	346
Dabney, Robert Lewis	8	387
Dalcho, Frederick	8	413
Deems, Charles Force	8	576
Devins, John Bancroft	9	41
Dexter, Henry Martyn	9	51
Dexter, Henry Morton	9	51
Dixon, Amzi Clarence	9	210
Dole, Charles Fletcher	9	234
Drinkhouse, Edward J	9	337
Du Bose, William Porcher	9	374
Duffield, George	9	387
Dunning, Albert Elijah	9	407
Elliott, Charles	10	254
Ellis, George Edward	10	256
Ellis, William Thomas	10	257
Engelhardt, Zephyrin	10	336
Errett, Isaac	10	484
Evans, Frederick William	10	591
Evans, Hugh Davy	10	592
Everett, Charles Carroll	10	597
Fairchild, Ashbel Green	10	717
Fairchild, James Harris	10	718
Faulkner, John Alfred	11	63
Faunce, Daniel Worcester	11	64
Finney, Charles Grandison	11	227
Fisher, George Park	11	280
Fitzgerald, Oscar Penn	11	301
Floy, James	11	400
Foster, Frank Hugh	11	528
Foster, George Burman	11	528
Foster, Robert Verrell	11	530
Fradenburgh, Jason Nelson	11	571
Frothingham, Nathaniel Langdon	12	126
Frothingham, Octavius Brooks	12	126
Furness, William Henry	12	182
Gannett, William Channing	12	274
Gardiner, Frederic	12	287
Gilbert, George Holley	12	648
Gillett, Ezra Hall	12	655
Gilman, Samuel	12	656
Gladden, Washington	12	676
Good, James Isaac	13	50
Gordon, George A	13	63
Gregg, David	13	442
Gregory, Caspar René	13	456
Gregory, Daniel Seelye	13	457
Hall, Charles Cuthbert	13	640
Hall, Francis Joseph	13	641
Hall, Thomas Cuming	13	644
Haven, Gilbert	13	764
Headley, Phineas Camp	14	27
Hibbard, Freeborn G	14	164
Hillis, Newell Dwight	14	191
Hodge, Charles	14	307
Hodges, George	14	307
Hopkins, Samuel	14	373
Howe, John	14	456
Hurlbut, Jesse Lyman	14	521
Hurst, John Fletcher	14	522
Inge, William Ralph	15	128
Jackson, George Anson	15	579
Jackson, Samuel Macauley	15	581
James, Henry	15	604
Jefferson, Charles Edward	16	1
Jessup, Henry Harris	16	36
Johnson, Herrick	16	171
Johnson, Thomas Cary	16	180
Jones, Samuel Porter	16	201
Keener, John Christian	16	334
Kelley, William Valentine	16	341
Kelso, James Anderson	16	346
Keyser, Leander Sylvester	16	388
Kieffer, Henry Martyn	16	406
Kilgo, John Charles	16	410
King, Henry Churchill	16	430
King, Henry Melville	16	430
Kingsley, Calvin	16	446
Kip, William Ingraham	16	452
Knox, George William	16	495
Krauth, Charles Porterfield	16	539
Künze, John Christopher	16	557
Lewis, Tayler	17	335
Long, William Joseph	17	636
Lowell, Robert Traill Spence	17	703
Ludlow, James Meeker	17	721
Lynch, Frederick (Henry)	17	776
MacArthur, Robert Stuart	18	9
MacCauley, Clay	18	21
McAfee, Cleland Boyd	18	5
McClintock, John	18	25
McCloskey, John	18	25
McClure, James Gore King	18	26
McConnell, Samuel D	18	27
Mahan, Milo	18	134
Mann, William Julius	18	228
Martyn, William Carlos	18	343
Merrill, George Edmands	18	680
Merrill, Stephen Mason	18	680
Meyer, Henry Herman	19	2
Miner, Alonzo Ames	19	155
Moore, Edward Caldwell	19	429
Moore, George Foot	19	430
Morris, John Gottlieb	19	476

Biographies — cont'd	Vol.	Page
Munger, Theodore Thornton	19	565
Nevin, John Williamson	20	110
Nourse, Edward Everett	20	462
Odenheimer, William Henry	20	581
Palmer, Ray	21	213
Paton, Lewis Bayles	21	400
Patterson, Robert Mayne	21	409
Peabody, Andrew Preston	21	437
Peabody, Francis Greenwood	21	438
Peloubet, Francis Nathan	21	488
Peters, John Punnett	21	663
Phelps, Austin	21	718
Pick, Bernhard	22	65
Pieper, Franz August Otto	22	73
Pierson, Arthur Tappan	22	77
Potter, Henry Codman	22	452
Powell, Edward Payson	22	475
Prentiss, George Lewis	22	532
Pressensé, Edmond Dehault de	22	558
Preston, Thomas Scott	22	559
Prime, Samuel Irenæus	22	577
Prince, Thomas	22	580
Pynchon, Thomas Ruggles	23	39
Quayle, William Alfred	23	71
Rauschenbusch, Walter	23	232
Remensnyder, Junius Benjamin	23	365
Ridgaway, Henry Bascom	23	511
Robertson, Archibald Thomas	23	571
Robinson, Charles Seymour	23	579
Ryan, John Augustine	24	70
Savage, Minot Judson	24	321
Schmauk, Theodore Emmanuel	24	381
Schmucker, Samuel Simon	24	382
Sewall, Frank	24	624
Shedd, William Greenough Thayer	24	671
Sheldon, Charles Monroe	24	682
Sheldon, Henry Clay	24	682
Shields, Charles Woodruff	24	708
Slicer, Thomas Roberts	25	97
Smith, Henry Boynton	25	120
Smith, John Talbot	25	123
Smith, Samuel Francis	25	126
Smyth, Samuel Philips Newman	25	141
Spaeth (Philip Friedrich), Adolph (Theodor)	25	322
Spencer, Jesse Ames	25	393
Stall, Sylvanus	25	473
Stevens, Abel	25	634
Stevens, George Barker	25	636
Stevens, William Arnold	25	638
Stimson, Henry Albert	25	651
Stone, James Samuel	25	678
Stowe, Calvin Ellis	25	705
Strong, Augustus Hopkins	25	739
Strong, Josiah	25	740
Stryker, Melancthon Woolsey	25	743
Sunderland, Jabez Thomas	26	36
Terry, Milton Spencer	26	450
Tillett, Wilbur Fisk	26	626
Torrey, Joseph	26	711
Upham, Thomas Cogswell	27	584
Van Dyke, Henry (Jackson)	27	671
Vedder, Henry Clay	27	714
Vincent, Marvin Richardson	28	96
Wakeley, Joseph Beaumont	28	218
Walker, Williston	28	231
Ware, William	28	702
Warren, William Fairfield	28	710
Weidner, Revere Franklin	29	160
Whiton, James Morris	29	285
Wigglesworth, Michael	29	298
Winslow, Hubbard	29	400
Wise, Daniel	29	426
Woods, Leonard	29	498
Woolley, Celia Parker	29	506
Worcester, Noah	29	510
Wright, William Burnet	29	571

OTHER COUNTRIES

Biographies — cont'd	Vol.	Page
Abbadie, Jacques	1	9
Abbo of Fleury	1	13
Agreda, Maria (Coronel) de	1	241
Aguesseau, Henri François d'	1	268
Ailly, Pierre d'	1	274
Alanus Ab Insulis	1	310
Alain De Lille	1	310
Albers, Pertus Henricus	1	330
Alexander, Cecil Frances	1	366
Allard, Marie Jules Paul	1	409
Allen, Alexander Viets Griswold	1	412
Allon, Henry	1	424
Alzog, Johann Baptist	1	460
Andreä, Johann Valentin	1	671
Aquila	2	309
Arn	2	309
Arno	2	309
Arnobius	2	312
Arthur, William	2	355
Astley, Hugh John Dukinfield	2	448
Atmore, Charles	2	507
Auber, Harriet	2	529
Auberlen, Karl August	2	530
Avancini, Nicholas	2	671
Baader, Benedict Franz Xavier von	3	1
Bæda	3	412
Baird, Robert	3	57
Bale, John	3	78
Balmes, Jaime Luciano	3	111
Baltzer, Johann Baptista	3	122
Bar-Hebræus	3	250
Baronius, Caesar	3	272
Barrow, Isaac	3	282
Barry, Alfred	3	284
Bartlet, James Vernon	3	292
Batiffol, Pierre Henri	3	339
Baumgarten - Crusius, Ludwig Friedrich Otto	3	350
Baur, Ferdinand Christian	3	351
Baur, Gustav Adolf Ludwig	3	351
Bayle, Pierre	3	364
Bayly, Lewis	3	366
Beal, Samuel	3	376
Beausobre, Isaac de	3	396
Beda	3	412
Beeching, Henry Charles	3	428
Beet, Joseph Agar	3	430
Beet, William Ernest	3	430
Bellarmine, Roberto Francesco Romolo	3	480
Bellarmino, Roberto Francesco Romolo	3	480
Bellegarde, Jean-Baptiste Morvan de	3	482
Benham, William	3	515
Benrath, Karl	3	522
Benson, Robert Hugh	3	523
Berington, Joseph	3	553
Bernard of Clairvaux	3	568
	27	216
Bernard of Cluny	3	570
Bernard, Jacques	3	569
Berruyer, Joseph Isaac	3	578
Besant, Annie	3	585
Beyschlag, Willibald	3	604
Bickersteth, Edward Henry	3	681
Bingham, Joseph	3	715
Birmingham, George A.	13	679
Birt, Henry Norbert	4	10
Blaikie, William Garden	4	51
Blair, Robert	4	55
Blumhardt, Christian Gottlieb	4	132
Blume, Clemens	4	131
Bochart, Samuel	4	142
Boehringer, George Friedrich	4	149
Bogatzky, Karl Heinrich von	4	154
Bogue, David	4	156
Bohme, Jakob	4	163
Bohm, Jakob	4	163
Bona, Giovanni	4	202
Bonar, Andrew Alexander	4	208
Bonar, Horatius	4	208
Bonet-Maury, Amy Gaston Charles Auguste	4	214
Bonghi, Ruggero	4	214
Bonner, Carey	4	219
Bonnet, Jules	4	220
Bost, Paul Ami Isaac David	4	292
Bottalla, Paolo	4	315
Boyd, Andrew Kennedy Hutchison	4	372
Bradshaw, William	4	389
Bradwardine, Thomas	4	390
Brewardine, Thomas	4	390
Breithaupt, Joachim Justus	4	463
Bright, William	4	540
Brown, David	4	604
Browne, George Forrest	4	614
Bucher, Anton von	4	663
Bunyan, John	5	27
Burnet, Gilbert	5	55
Burton, Edwin Hubert	5	67
Butler, Alban	5	78
Butler, Charles	5	78
Butler, Joseph	5	79
Byrne, Thomas Sebastian	5	97
Bzovius, Abraham	5	112
Cæsarius of Nazianzus	5	141
Cairns, John	5	148
Calamy, Edmund	5	156
Calixtus, Georg	5	224
Calovius, Abraham	5	235
Campbell, George	5	278
Campbell, James Mann	5	278
Cano, Melchior	5	512
Carrières, Louis de	5	671
Carvajal, Tomas José Gonzales	5	689
Casa, Giovanni della	5	692
Casartelli, Louis Charles	5	694
Casiri, Michael	5	704
Cassianus	5	710
Castalio, Sébastien	5	720

Biographies — cont'd	Vol.	Page
Castellio, Sébastien	5	720
Castellion, Sébastien	5	720
Celano, Tommaso da	6	165
Cerutti, Giuseppe A. G.	6	228
Chabot, Jean-Baptiste	6	240
Chalmers, Thomas	6	255
Charles, Robert Henry	6	326
Charron, Pierre	6	336
Charteris, Archibald Hamilton	6	340
Cheetham, Samuel	6	375
Chemnitz, Martin	6	408
Christlieb, Theodor	6	623
Chrypffs, Nikolas	8	332
Church, Richard William	6	653
Clarke, Samuel	7	49
Claude, Jean	7	61
Clayden, Peter William	7	73
Clemanges, Mathieu Nicolas	7	82
Cobbe, Frances Power	7	175
Coccelus, Johannes	7	181
Collins, Anthony	7	268
Colonna, Aegidius de	7	298
Cometas	7	360
Conybeare, Frederick Cornwallis	7	619
Conybeare, William John	7	619
Coquerel, Athanase Josué	7	675
Costa, Isaac da	8	39
Court de Gebélin, Antoine	8	124
Creighton, Mandell	8	176
Cruz, San Juan de la	8	265
Cusa, Nikolaus	8	332
Cusack, Mary Frances	8	332
Cusanus, Nikolaus	8	332
Daillé, Jean	8	396
Dale, Robert William	8	414
Damascenus, Joannes	8	426
Damascus, John of	8	426
Daniel, Hermann Adalbert	8	452
Daub, Karl	8	491
D'Aubigné, Jean Henri Merle	8	492
Davenant, John	8	496
Davenport, John	8	497
Dawson, William	8	517
Dawson, William James	8	517
De Bray, Guido	8	544
Deissman, Gustav Adolf	8	602
Dejardins, Paul	15	486
Denney, James	8	686
Dens, Petrus	8	687
De Smedt, Charles	9	11
Dewart, Edward Hartley	9	45
De Wette, Wilhelm Martin Leberecht	9	46
Dick, Thomas	9	79
Dickson, William Purdie	9	85
Didon, J. Henri	9	92
Didymus of Alexandria	9	94
Dods, Marcus	9	222
Döllinger, Johann Joseph Ignaz von	9	236
Dorner, August Johannes	9	267
Dorner, Isaak August	9	267
Doumergue, Emile	9	282
Dowden, John	9	286
Drummond, James	9	353
Dryander, Ernst	9	362
Duchesne, Louis Marie Olivier	9	377
Duncan, John	9	401
Duns Scotus, Johannes	2	516
	9	408
Dupin, Louis Ellies	9	410
Dykes, James Oswald	9	455
Dykes, John Bacchus	9	455
Eck, Johann Maier von	9	544
Ehlers, Rudolf	10	24
Ehrle, Francis	10	24
Elliott, Charlotte	10	254
Engelbert	10	335
Engelhardt, Johann Georg Veit	10	336
Erasmus, Desiderius	10	466
Erastus, Thomas	10	467
Erdmann, David	10	470
Erskine, Thomas	10	486
Escobar y Mendoza Antonio	10	495
Etheridge, John Wesley	10	536
Eusebius of Cæsarea	10	584
Euthymius	10	586
Evagrius Scholasticus	10	588
Faber, Frederick William	10	690
Faber, George Stanley	10	690
Fabri, Friedrich	10	695
Fairbairn, Andrew Martin	10	716
Farmer, Hugh	11	38
Farrar, Frederic William	11	48
Felix, Marcus Minucius	11	104
Fell, John	11	104
Fénelon, François de Salignac de la Mothe	11	115
Figgis, John Neville	11	202
Firmicus, Maternus Julius	11	258
Flacius, Matthias	11	307
Fleury, Claude	11	350
Flint, Robert	11	357
Flodoard	11	359
Foakes-Jackson, Frederick John	11	409
Forget, Jacques	11	489
Forsyth, Peter Taylor	11	496
Fortunatus, Venantius H. C.	11	522
Foxe, John	11	567
	14	225
Franck, Sebastian	11	762
Frank, Sebastian	11	762
Frend, William	12	86
Freylinghausen, Johann Anastasius	12	99
Friedrich, Johannes	12	105
Frith, John	12	112
Frommel, Emil	12	121
Fulke, William	12	153
Fuller, Andrew	12	153
Fuller, Thomas	12	155
Funk, Franz Xaver von	12	174
Gasquet, Francis Aidan	12	331
Gauden, John	12	338
Gautier (Charles), Lucien	12	343
Geden, Alfred Shenington	12	354
Gelkie, John Cunningham	12	359
Gibson, John Monro	12	645
Gilfillan, George	12	653
Gill, John	12	654
Glanvill, Joseph	12	681
Gloag, Paton James	12	717
Goblet, D'Alviella Eugène	12	743
Godwin, Francis	12	749
Goetz (Leopold), Karl	13	6
Golding, Arthur	13	30
Goldziher, Ignaz	13	37
Gonzalo de Berceo	13	49
Grisar, Hartmann	13	481
Groot, Jan Jakob Maria de	13	485
Gruber, Hermann	13	503
Guasco, Alexandre	13	516
Guibert of Nogent	13	531
Hackmann, Heinrich Friedrich	13	608
Hahn, August	13	618
Haldane, James Alexander	13	630
Hannay, James Owen	13	679
Hardwick, Charles	13	705
Hare, Julius Charles	13	706
Havergal, Frances Ridley	13	764
Heber, Reginald	14	56
Henson, Herbert Hensley	14	109
Herbert, George	14	119
Hernández y Gimeno, Pablo	14	133
Herrero y Rubira, Sor Luisa del Espiritu Santo	14	145
Hollweck, Josef	14	320
Hooker, Richard	14	363
Horton, Robert Forman	14	422
Hospinian, Rudolf	14	426
How, William Walsham	14	452
Huber, Johannes	14	465
Huet, Pierre Daniel	14	475
Hughes, Hugh Price	14	479
Hunt, John	14	512
Hunter-Blair, Oswald	14	515
Illingworth, John Richardson	14	681
Ingold, Augustin Marie Pierre	15	131
Iverach, James	15	562
Ivimey, Joseph	15	563
Jackson, George	15	579
Jackson, Thomas	15	581
Janssen, Johannes	15	617
Jebb, John	15	766
Jessopp, Augustus	16	36
Jobson, Frederick James	16	152
Johnson, Gisle Christian	16	171
Jones, Arthur Edward	16	195
Jordan, Louis Henry	16	208
Jortin, John	16	210
Jowett, John Henry	16	225
Juan de Yepes y Alvarez	8	265
Jurieux, Pierre	16	255
Kate, Jan Jacob Lodewijk Ten	16	315
Kautzsch, Emil Friedrich	16	322
Keith, Alexander	16	335
Kelley, Charles H.	16	340
Kelly, Thomas	16	344
Kemnitz, Martin	6	408
Kempis, Thomas à	16	350
Kennedy, John	16	356
Ker, John	16	375
King, Edward	16	430
Klostermann, August Heinrich	16	474
Knapp, Albert	16	476
Knobel, Karl August	16	488
Knox, John	14	225
Koch, Johannes	7	181
Koetsveld, Cornelis Eliza van	16	507
Köhler, Walther Erich	16	509
Krebs, Nickolas	8	332
Krüger, Gustav	16	547
Krummacher, Friedrich Adolf	16	547
Kuenen, Abraham	16	562
La Place, Josué de	15	579
La Saussaye, Pierre Daniel Chantepie de	16	583
Labbe, Philippe	16	588
Lactantius, Firmianus	16	639
Laemmer, Hugo	16	647

Biographies — cont'd	Vol.	Page
Lamennais, Hugues Felicité Robert de	16	675
Lang, Heinrich	16	716
Lasserre, Paul Joseph Henri de Monzie	16	759
Le Clerc, Johannes Clerlicus	17	163
Le Clerc, John	17	163
Lead, Jane (Ward)	17	170
Leade, Jane (Ward)	17	170
Lehmann, Johannes Edvard L.	17	259
Lehmkuhl, Augustinus	17	260
Lloyd, Arthur	17	549
Lombard, Peter	17	617
Lombardus, Petrus	17	617
Lyne, Joseph Leycester	17	779
Lyte, Henry Francis	17	788
MacCall, Malcolm	18	27
MacLeod, Donald	18	79
MacMillan, Hugh	18	83
McClymont, James Alexander	18	26
McDonald, James Alexander	18	37
McGiffert, Arthur Cushman	18	48
Mackenzie, William Douglas	18	69
Mai, Angelo	18	138
Manrique, Angel	18	232
Mansel, Henry Longueville	18	234
Marshman, Joshua	18	330
Martin, Félix	18	336
Martineau, James	18	340
Massiliensis, Joannes	5	710
Massingberd, Francis Charles	18	416
Matheson, George	18	436
Matthews, John Hobson	18	444
Maurice (John), Frederic Denison	18	470
Medhurst, Walter Henry	18	534
Meistermann, Barnabas Francis Joseph	18	598
Merobaudes, Flavius	18	677
Merry, William Walter	18	681
Mézières, Philippe de	19	6
Migne, Jacques Paul	19	47
Milner, Joseph	19	131
Mitchell, Anthony	19	265
Möhler, Johann	19	308
Monod, Adolphe	19	364
Monsell, James Samuel Bewley	19	377
Montgomery, James	19	407
Montgomery, Robert	19	408
Morgan, George Campbell	19	450
Morris, John	19	476
Mosheim, Johann Lorenz von	19	501
Moultrie, John	19	521
Mozley, James Bowling	19	545
Müller, Julius	19	558
Musculus, Wolfgang	19	618
Navarro, Nicolás Eugenio	20	6
Neale, John Mason	20	22
Neander, Johann August Wilhelm	20	22
Netter, Thomas	20	96
Newbolt, William Charles Edmund	20	261
Newman, Albert Henry	20	274
Newman, John Henry	10	384
	20	274
Orr, James	21	10
Otfried	21	40
Ottley, Robert Lawrence	21	49
Overton, John Henry	21	60
Oxenden, Ashton	21	70
Pagliarici, Antonio Del	21	138
Palearius, Aonius	21	138
Palladius, Peter	21	208
Pallavicino, Sforza	21	209
Palmieri, Aurelio	21	215
Parker, Joseph	21	328
Paschasius, Radbertus	21	365
Paulinus, Pontius Meropius Anicius, Saint	21	420
Pázmány, Peter	21	435
Pearse, Mark Guy	21	457
Pearson, John	21	458
Peck, George	21	462
Perrone, Giovanni	21	605
Petavius, Dionysius	21	655
Petit, Louis	21	672
Pfleiderer, Otto	21	701
Piacenza, Pietro	22	51
Piolet, Jean-Baptiste	22	105
Placeus, Josué de	16	579
Plumptre, Edward Hayes	22	2[illegible]8
Pollen, John Hungerford	22	320
Poncelet, Albert	22	347
Pope, William Burt	22	361
Powell, Baden	22	475
Price, Richard	22	568
Pullen, Henry William	22	795
Purchas, Samuel	23	25
Radbert-Paschase	21	365
Ramsay, Sir William Mitchell	23	205
Rees, Abraham	23	297
Reinkens, Joseph Hubert	23	335
Réville, Albert	23	447
Richer, Edmond	23	498
Rigg, James Harrison	23	518
Robertson, James Craigie	23	572
Robinson, Joseph Armitage	23	582
Robinson, Robert	23	583
Rösler, Augustin	23	701
Rufinus, Tyrannius	23	755
Rule, William Harris	23	764
Russell, Charles William	23	784
Rydelius, Andrew	24	71
Sabatier, Paul	24	78
Sagard-Theodat, Gabriel	24	107
Sagmuller, Johannes Baptist	24	109
Schleiermacher, Friedrich Ernst Daniel	24	378
Scherer, Edmond (Henri Adolphe)	24	368
Seeberg, Reinhold	24	527
Servetus, Michael	24	604
Servete, Miguel	24	604
Sheehan, Patrick Augustine	24	672
Sigebert of Gembloux	24	797
Sinclair, William Macdonald	25	32
Smith, George	25	117
Smith, George Adam	25	117
Smith, Goldwin	16	98
Smyth, John Paterson	25	141
Socrates Scholasticus	25	220
Soloviev, Vladimir Sergelevitch	25	244
Spener, Philipp Jakob	25	395
Sprenger, Jacob	25	450
Spurgeon, Charles Haddon	25	461
Stanley, Arthur Penrhyn	25	483
Stephanus, Robert	25	617
Stephens, William Richard Wood	25	621
Sternhold, Thomas	25	632
Stevenson, Joseph	25	639
Strauss, David Friedrich	25	719
Taylor, Isaac	26	299
Taylor, Jeremy	26	300
Tertullian	11	55
	26	4[illegible]2
Theodoret	26	510
Theodore of Mopsuestia	26	510
Thirlwall, Connop	26	5[illegible]7
Thomas of Celano	26	575
Tiele, Cornelis Petrus	26	618
Tindall, William	26	641
Tyndale, William	26	641
Toplady, Augustus Montague	26	701
Torquemada, Juan de	26	708
Trench, Richard Chenevix	27	39
Trithemius, Johannes	27	79
Tuke, Henry Scott	27	133
Tulloch, John	27	138
Tyrrell, George	27	247
Valla, Laurentius	27	649
Valle, Lorenzo Della	27	649
Vaughan, Bernard	27	699
Vaughan, John Stephen	27	700
Venerable Bede	10	38
Ventura, G. D. Gioachino	28	8
Vermeersch, Arthur	28	16
Vidalin, Jon Thorkelsson	14	633
Vinet, Alexandre Rodolphe	28	103
Vlacich, Matthias	11	307
Wace, Henry	28	203
Wagner, Charles	28	209
Wakefield, Gilbert	28	217
Wallin, Johan Olof	28	241
Walsh, William	28	248
Waterland, Daniel	29	70
Webb-Peploe, Hanmer William	29	144
Wedderburn, James	29	173
Welsh, Robert E.	29	190
Wesley, Samuel	29	197
Wessel, Johann	29	197
Whitaker, John	29	263
White, Joseph Blanco	29	267
Whyte, Alexander	29	288
Williams, Isaac	29	340
Wolstan	29	576
Woolston, Thomas	29	508
Wordsworth, Christopher	29	515
Wordsworth, John	29	516
Wright, Charles Henry Hamilton	29	568
Wulfstan	29	576
Wulstan	29	576

Biographies of Non-Christian Religious Leaders

Aaron Ben Asher	1	4
Aaron Ben Elijah	1	5
Aba	1	5
Abbas	1	9
Albo, Joseph	1	339
Abdel-Wahâb	28	212
Abdul Baha	1	31
Abimelech	1	42
Abravanel, Isaac ben Jehuda	1	50
Abu Hanifah	1	5
Adler, Hermann	1	142
Adler, Nathan Marcus	1	143
Adler, Samuel	1	143
Æschylus	1	196
Al Amin	5	221
Alfasi, Isaac	16	73
Ali	1	399
	5	219

Biographies — cont'd	Vol.	Page
Abd Allah Ibn Al Muttalib	1	27
Al-phasi, Isaac	1	438
Amru	1	591
Appollonius Molo	16	98
Aristobulus	2	237
Aristophanes	13	413
Asher, Ben Yehiel	2	385
Atha	2	490
Attila	2	324
Ayesha	2	684
Azariah dei Rossi	16	74
Bar-Cochab	3	243
Bar-Cochebas	3	243
Bar-Kokba	3	243
Basilides	3	310
Buddha	4	672
Ben-Asher	16	92
Ben-Naphtali	16	92
Caro, Joseph	16	74
Cato	6	106
	12	208
Cicero	6	668
	16	98
Cohen, Henry	7	215
Darwin, Charles	8	485
	12	211
De Sola, Abraham	9	13
Diodorus Siculus	16	98
Divorcer, The	13	748
Einhorn, David	10	40
Elijah Levita	16	74
Eliot, George	12	211
Emden, Jacob	16	75
Epaphos	10	411
Euripides	12	208
Takhr-Ad-Dien Ar-Razi	10	724
Festus, Porcius	11	157
Fiske, John	12	211
Fleischer, Charles	11	343
Frank, Jacob	12	4
Frankel, Zacharias	12	5
Franklin, Benjamin	12	211
Fürst, Julius	12	199
Gallancz, Israel	13	304
Gamaliel	12	260
Gaster, Moses	12	332
Geiger, Abraham	12	358
Gennadius	12	398
Genseric	17	293
Gershom, "The Light of the Diaspora"	16	74
Gotama	4	672
Gottheil, Gustav	13	81
Hadassi, Judah	16	97
Haggai	13	615
Halevi, Judah	16	73
Ham	13	651
Ha-Nasi	16	228
Hanfa	1	5
Harmodius	12	208
Harnack, Adolf	13	719
	14	254
Hasan	13	748
Hasan ibn-Sabah	19	806
Ha-Zaken the Elder	14	190
Hephæstus	14	110
Hera	14	111
Heraclitus	12	207
Herod Agrippa II	14	136
Herod Antipas	14	137
Hirsch, Emil Gustav	14	203
Hillel	14	190
Hirsch, Samson Raphael	14	204
Honda, Yoitsu	14	349
Husain	13	748
Ingersoll, Robert G	12	211
Isaac, Samuel Myer	15	405
Jarchi	23	220
Jastrow, Marcus M	15	752
Jastrow, Morris, Jr	15	752
Jehoiachim, King	16	109

Biographies — cont'd	Vol.	Page
Jephthah	16	122
Jeroboam I	16	26
Jeroboam II	16	26
Jezebel	16	146
Jezid	5	220
Jonathan	16	195
Jonathan Ben Nuzziel	16	195
Jones, Jenkin Lloyd	16	198
Joram, or Jehoram	16	207
Josephus, Flavius	16	213
Juda	16	230
Judah	16	228
Judah I	16	228
Judah, Ben Samuel	16	229
Judah Hanasi	16	72
Judas	16	230
Judas Barsabbas	16	230
Judas of Galilee	16	230
Judas Maccabæus	16	230
Jude	16	230
Juno	14	111
Kahkewaquonaby	16	201
Kant	12	211
Kneeland, Abner	16	478
Kohler, Kaufmann	16	508
Landsberg, Max	16	705
Lee, Sir Sidney	13	304
Lilienthal, Max	17	436
Luzzatto, Samuel David	17	767
Luria, Isaac Ben Solomon	17	749
Mabuchi	18	3
Macedonius	18	45
Mad Mullah	18	92
Maha-Kasyapa, Kassappa	18	132
Maimonides	16	73
	18	140
Mamun	5	221
Manasseh Ben Israel	18	195
Manasseh, King of Judah	18	195
Manasseh, Son of Johanan	18	195
Manetho	16	98
Marcion	18	272
Marcus Aurelius Antoninus	12	209
Mattathias	18	17
Mazdak	18	471
Menasse, Ben Israel	18	621
Menasseh ben Israel	16	75
Mendelssohn, Moses	16	67
	18	623
Mielziner, Moses	19	46
Mill, John Stuart	12	211
Mirza, Husain Ali Nuri	19	223
Moawiyah I	5	220
Mohammed	2	119
	19	292
Mokanna, Al	2	490
	19	310
Mortara, Edgar	19	486
Mosaylima	19	493
Mosellema	19	493
Moses ben Maimon	16	73
Moses Hayim Luzzatto	16	75
Motassem	5	221
Mozoomdar, Pratap Chandra	19	543
Müller, Max	19	780
Münsterberg, Hugo	12	212
	19	597
Nahman, Krockmal	16	75
Nânak	19	687
Nânek	19	687
Nânuk	19	687
Nathan	19	722
Natronai bar Hilai	16	96
Netter, Charles	16	101
Norton, Andrews	20	434
Norton, John	20	435
Oid al-Taras	16	96

Biographies — cont'd	Vol.	Page
Omar	5	219
Osman	5	219
Othman Ibn Affan	21	41
Paine, Thomas	12	211
	21	105
Paul	12	208
Pascal, Blaise	21	362
Pericles	13	414
	21	584
Philipson, David	21	760
Pilate, Pontius	22	83
Pindar	12	207
	22	94
Plato	12	208
	22	233
Pythagoras	12	207
	23	47
Rabbi Solomon-Ben-Isaak	23	220
Rameses	23	202
Rameses II	16	273
Raphall, Morris Jacob	23	217
Rapoport, Solomon Loeb	16	75
Rashi	23	220
Reading, Lord	13	303
Renan, Ernest	10	634
	23	374
Riesser, Gabriel	16	107
Riph, Isaac	1	438
Rosenau, William	23	697
Rothschild, Sir Nathaniel de	13	303
Saadja Ben Joseph, Arab Said	24	75
Sabbathai Zebi	16	101
Samson	16	233
	24	227
Sarah	24	293
Schechter, Solomon	24	364
Schereschewsky, Samuel Isaac Joseph	24	368
Schermerhorn, Martin Kellogg	24	368
Schindler, Solomon	24	374
Schulhan Aruk	16	74
Schulman, Samuel	24	404
Seixas, Gershom Mendes	24	534
Sen, Keshub Chunder	24	556
Seneca	12	208
Serene	16	101
Silverman, Joseph	25	15
Simeon	25	21
Socrates	12	207
	25	218
Solomon ibn Gabirol	16	73
Sophocles	12	207
Spencer, Herbert	13	408
	25	390
Spinoza	24	615
Taylor, E. B	13	408
Thaumaturgus	13	448
Vallabhacharya	27	649
Van Dale	13	414
Voltaire, Jean François Marie Arouet	28	176
Vulcanus	14	110
Vyasa	28	201
Wessely, Hartwig	16	75
Wise, Isaac Mayer	29	427
Wise, Stephen Samuel	29	428
Xenophon	12	208
	29	597
Yazid	5	220
Zobeir, ibn al Awam	29	718
Zoroaster	21	347
	29	732
Zubair, ibn al Awam	29	718
Zuns, Leopold	16	75
	29	780

See also **History; Mythology** and **Sociology.**

RUBBER AND RUBBER PRODUCTS

General	Vol.	Page
Amazonian rubber	17	71
Bahia rubber	17	71
Caoutchouc	5	540
	13	582
	15	25
	23	739
yielding trees	23	745
Cartagena scrap	17	71
Castilloa rubber	27	98
Caucho rubber	17	71
	27	98
Ceara rubber	17	71
	27	98
Ceara scrap	17	71
Centrals	17	71
Colombia Virgen	17	71
Dipped rubber goods	23	743
Elastic gum	15	25
Guayule rubber	13	521
	17	71
	18	752
Hevea prasiliiensis	17	71
Huayule	13	521
India rubber	15	24
tree	15	26
Inner tube	23	744
Jelutong	16	11
Kamptulicon	16	289

General — cont'd	Vol.	Page
Latin America, rubber industry	17	70
Mangabeira rubber	15	26
	17	71
	27	98
Maniçoba rubber	17	71
Matto-Grosso sheets	17	71
Mexican strips	17	71
Pará rubber	17	71
	27	93
Pneumatic tire	23	742
Reclaiming rubber	15	25
Rubber	4	433
	17	42
	23	739
	27	93
cement	17	198
crude, production of	23	743
footwear	24	741
heels	17	198
industry in Bolivia	17	72
industry in Brazil	4	433
industry in British Honduras	17	72
industry in Canada	5	447
industry in Central America	17	72
industry in Colombia	17	72
industry in Ecuador	17	72

General — cont'd	Vol.	Page
industry French Equatorial Africa	12	66
industry in Latin America	17	70
industry in Mexico	17	72
	18	747
industry in Panama	17	72
industry in Peru	17	72
industry in Venezuela	17	72
industry in the United States	23	743
manufacture	23	740
shoes	17	198
	23	741
	24	741
sundries	23	742
thread	23	743
tires	23	744
trees	23	745
	27	98
trees, cultivation of	23	746
vulcanization of	15	283
	23	740
world production	23	743
Rubberized fabrics	23	743
Storm rubber	17	199
Vulcanite	28	195
Vulcanization	28	195

SHIPS, SHIPPING AND SHIPBUILDING

General	Vol.	Page
A 1	1	2
Abaft	24	729
Admiralty and maritime jurisdiction	1	145
Aft	24	729
After	24	729
Alaskan canals	29	101
Amazon river	1	468
American Bureau of Shipping	1	502
American-Ephemeris and Nautical Almanac	20	10
American liners	25	559
American Nautical Almanac	20	10
American tonnage, licensed	18	663
Anchor	1	652
	24	729
Anchorage	1	653

General — cont'd	Vol.	Page
Anchor gear	25	772
ketch	16	383
Aquitania	25	559
Ark	24	112
Astronomy, nautical	20	7
Athwartship	24	729
Back-staff	3	17
Bacser canal	12	20
Ballast	3	98
	24	722
	24	729
Barge canal (New York State)	3	247
Bark	3	254
	24	729
Barque	3	254
Beacon	3	373
Beacons	17	429
Beam	24	729
Bearing	3	382

General — cont'd	Vol.	Page
Bells	3	492
Below	24	729
Berth	24	729
Biels-Ozero	3	690
Bilge	3	701
	24	729
blocks	3	701
keel	3	701
	24	729
Keelson	3	701
water	3	701
Bilgeways	3	702
Binnacle	3	716
Bitts	24	729
Block	24	729
Boat	4	136
ferry	11	143
Boats, ancient history	23	112
Hudson river	25	556
Long Island sound	25	556

General — cont'd	Vol.	Page
Boats, motor	19	515
Bobstay	24	729
Boom	24	729
Boss	24	729
Bottle charts	4	317
Bottomry	4	319
Bow	24	729
Bowditch's Practical Navigator	4	360
Breakwaters	13	688
	13	691
Bridge	24	729
Brig	4	535
	24	729
Brigantine	4	536
Builders' measurement	18	481
Bulkhead	5	7
	24	729
Bulwark	24	729
Bum boat	5	21
Bunker	24	729
Buoyancy	24	729
Buoys	5	29
	17	429
Cable	5	121
Cables, chain	5	121
Caboose	5	126
California navigation	5	208
Calking	6	131
	24	729
Camber	24	729
Canadian canals	5	458
	5	476
Canals	5	481
Alaskan	29	101
Bacser	12	20
Barge	3	247
Canadian	5	458
	5	476
Cape Cod	24	723
	29	101
Chambly	5	477
Chesapeake and Delaware	29	85
Chesapeake and Ohio	5	485
Corinth	24	722
Cornwall	5	454
	5	458
	5	477
Dalles-Celilo	29	99
de Berry	3	579
Dismal Swamp	9	167
Elsemere	13	311
Erie	5	454
	5	485
Ganges	12	273
Gotha	13	311
Hennepin	5	486
Houston ship	29	90
Illinois and Michigan	5	486
	29	97
Illinois and Mississippi	29	97
Intercostal	15	210
Interoceanic	27	363
Intracostal	15	210
James River and Kanawha	5	486
Kaiser Wilhelm	16	279
	16	407
	24	723
	27	151
Kiel	16	279
	16	407
Lachine	5	454
	5	476
	9	236
Lake Washington	29	100
Louisville and Portland	29	95

General — cont'd	Vol.	Page
Manchester ship	24	723
Marseilles-Rhone	24	723
Muscle Shoals	29	94
Ohio Falls	5	487
Ontario	20	694
Panama	21	233
	23	395
	29	101
Port Arthur ship	22	378
	29	90
Rideau-Ottawa system	5	454
	5	477
Sabine-Neches	29	91
Saint Lawrence	5	456
	5	457
	5	458
	5	476
Saint Mary's Falls	24	723
	29	98
Saint Michael	29	101
Saint Peter's	5	478
Saint Petersburg	24	722
Sault Saint Marie	5	458
	5	459
	5	477
Ship	24	722
Soo	24	318
Soulanges	5	458
	5	477
Suez	25	789
Tolls-Panama	21	238
United States boat	5	485
Welland	5	454
	5	458
	5	459
	5	477
	29	178
Williamsburg	5	454
	5	477
Canoe	5	512
birch bark	5	512
Esquimaux	5	512
Cant	24	729
Cap	5	541
Cape Cod canal	24	723
	29	101
Capstan	5	573
	24	729
Caravel	5	585
Cargo	5	607
	24	722
	26	688
and ballast	24	722
measurement	26	688
Carline	24	729
Carrying trade	24	115
Catamaran	6	43
Catboat	6	29
Cauking	6	131
Caulking	6	131
	24	729
Centreboard	6	214
	24	729
Centre line	24	729
Chain-wales	6	289
Chambly canal	5	477
Channels	6	289
Charlotte Dundas	25	554
Chart	6	336
Gnomonic	13	355
navigation	6	337
Chesapeake and Delaware canal	29	85
Chesapeake and Ohio canal	5	485
Chinsing	24	729
Chock	6	581
	24	729
Chronometers, marine	3	581
Cleat	24	730

General — cont'd	Vol.	Page
Clermont	25	555
Clew	24	730
Clipper	7	116
	18	659
bow	7	116
ships	24	116
Coaling stations	7	165
Coaming	24	730
Coast guard	17	410
Coast pilots	7	169
Coastwise steamships	25	559
Coble, or cobble	7	177
Cockswain	8	142
Coffer dam	24	730
Cohasset Rocks lighthouse	19	212
Collision	7	270
Commonwealth	25	557
Compass, boxing	4	370
deviation of	9	37
mariner's	7	427
	12	661
Concrete ships	7	474
Congo river	16	515
Coracle, or currach	7	676
Corinth canal	24	722
Cornwall canal	5	454
	5	458
	5	477
Corsair	8	23
Coxswain	8	142
Cradle	24	730
Crew	8	189
Crosstrees	24	730
Cutwater	24	730
Dak	8	412
Dalles Celilo canal	29	99
Danish Sound dues	8	462
Danube navigation commission	8	468
Danube river	8	468
Davits	8	513
	24	730
fish	11	279
Dawk	8	412
Deadeye	8	525
	24	730
Dead flat	8	525
Deadlight	8	525
	24	730
Dead reckoning	8	526
Dead-ropes	8	525
Deadweight tonnage	26	688
de-Berry canal	3	579
Deck	24	730
Departure	8	701
Devil's claw	9	40
Dhow	9	53
Dismal Swamp canal	9	167
Displacement	24	730
tonnage	26	688
Docks	13	688
	13	690
Dock warrant	9	216
Dogwatch	9	232
Doldrums	9	234
Dress ship	9	331
Double bottom	24	730
Draft	24	730
Drag	24	730
Dry dock	24	730
Dunnage	9	406
	24	730
Dutch ships	24	112
Eddystone Lighthouse	13	311
Elbe river	10	55
Elsmere canal	13	311
Emergency Fleet Corporation	18	662
Engine, marine	10	339
Erie canal	5	454
	5	485

General — cont'd	Vol.	Page
Even keel	24	730
Fabricated ships	24	720
Fair lead	24	730
Fake	24	730
Fall	24	730
Felucca	11	107
Fender	24	730
Ferry	11	143
boats	11	143
double screw	25	560
early	25	556
steam	25	556
first steam	25	636
Fid	18	303
Fire quarters	11	248
Fire-ships	11	248
Fish davit	11	279
Flag	11	308
Floats	11	359
Fog	11	411
signals	11	411
	17	430
Fore	24	730
and aft	24	730
Forecastle	24	730
Forward	24	730
Framing	24	730
Freeboard	24	730
Free port	12	43
Free ships, free goods	12	43
trial of	18	661
Free trade	12	44
French merchant fleet	11	721
Frigate	12	110
Funnel-marks	12	175
Futtock	24	730
plate	24	730
shrouds	24	730
Gaff	12	224
Galleon	12	244
Gallery	12	245
Galley	5	126
	12	245
	24	730
Galleys, Roman	24	112
Ganges canal	12	273
Gangway	24	730
Gant line	24	730
Garboard strake	24	730
Garnet	24	730
Gasket	24	730
Gimbal	24	730
Girt line	24	730
Gondola	13	45
Gotha canal	13	311
Great circle sailing	13	355
Great Lakes and connecting waterways	29	97
Great Lakes system	29	96
Great Western	14	293
Gripe	13	480
Gross tonnage	24	730
	26	688
Gulf-State waterways development	29	91
Gunter's scale	13	573
Gunwale	24	730
Halliard	24	730
Halyard	24	730
Hamburg Port	13	689
Harbors	13	688
Hatch	24	730
Hawse	24	730
Hawser	5	121
	14	9
	24	730
Head	24	730
Heel	24	730
Helm	24	730
Hennepin canal	5	486
High seas	14	179
Hogging	24	730

General — cont'd	Vol.	Page
Hold	24	730
Hounds	24	730
Houston Ship canal	29	90
Hudson river	14	471
	29	84
boats	25	556
Hull	24	730
Hydrographic Office, United States	14	575
Hydrography	14	576
Ice	14	620
Iceberg	14	626
Ice-breaker	14	622
Illinois and Michigan canal	5	486
	29	97
Illinois and Mississippi canal	29	97
Imperator	25	559
Inboard	24	730
India canals	15	7
India, shipping and navigation of	15	6
Inland waterways	15	139
Insurance, marine	15	193
Intercostal	24	730
canal	15	210
Interoceanic canals	27	363
Intracostal canal	15	210
Jackstaff	24	730
James River and Kanawha canal	5	486
Jetsam	7	397
	16	46
Jettison	16	47
Jury mast	16	262
Kaiser Wilhelm canal	16	279
	16	407
	24	723
	27	151
Kedge	16	332
anchor	16	332
Keel	24	730
Keelson	16	333
	16	346
	24	730
Kelson	16	346
Ketch anchor	16	383
Kiel canal	16	279
	16	407
Knightheads	24	730
Knot	16	491
Knotting and splicing	16	491
Kongo river	16	515
Lachine canal	5	454
	5	476
	9	236
Lake steamers	25	557
Lake Washington canal	29	100
Laniard	16	732
Lanyard	16	732
Larboard	16	746
Latitude	17	95
by dead reckoning	20	8
Launch	17	104
Launching	24	730
Lee	17	226
Leeway	17	231
Length	24	730
Leviathan	25	559
Life-boat	17	409
American	17	410
requirements	17	410
Life preserver	17	413
first	15	282
Life-rafts	17	413
Life-rockets	17	414
Life-Saving Service, United States	17	414
Lighter	17	428
Lighterage	7	397
Light-house	17	428

General — cont'd	Vol.	Page
Administration	17	430
construction	17	428
lanterns	17	429
machines	17	429
optical apparatus	17	428
radiants	17	429
Service, United States	17	431
steel tubular	17	430
Lightships	17	429
Liners, American	25	559
Lines	24	730
packet	24	115
Lloyd's Register	17	550
Load line	17	550
Log	17	593
book	17	594
patent	17	594
taffrail	17	594
London docks	17	629
Long Island Sound boats	25	556
Longitude	17	645
by dead reckoning	20	8
Longitudinal	24	730
Louisville and Portland canal	29	95
Lusitania	17	750
Magazine	24	730
Manchester Ship canal	24	723
Marine engine	10	339
Marine insurance	15	193
Mariner's compass	7	427
Maritime Law	18	295
Marline	24	730
spike	18	303
Marlingspike	18	303
Marseilles-Rhone canal	24	723
Martingale	24	730
Mary Powell	25	556
Masts	24	721
	24	730
military	19	77
Mauretania	25	559
Measurement tonnage	26	688
Mercator's projection	23	478
Merchant marine	24	735
colonial	24	115
decline before Civil War	18	660
early growth of American	18	657
stagnation after war	18	661
United States	18	657
war growth	18	662
Merchant ships	24	113
Merchant vessels, neutral rights	18	664
transfer from belligerents to neutrals	24	665
Metacentre	24	730
Midship	24	730
Minot's Ledge Light-house	19	212
Mississippi river	19	248
Mooring	24	730
Motor boats	19	515
Mould loft	24	731
Muscle Shoals canal	29	94
Nautical training schools	19	782
Naval stores	20	3
Navigation	14	545
	20	7
Act	20	15
Acts, British	13	253
laws	20	15
Net tonnage	24	731
	26	688
New York harbor	20	228
Nile river	20	346
Oakum	24	731
Ocean freight	12	56

General — cont'd	Vol.	Page
Ocean steamships	23	558
Ohio Falls canal	5	487
Olympic	25	559
Ontario shipping	20	694
Oregon shipbuilding	20	776
Orlap-deck	21	1
Outboard	24	731
Outrigger	24	731
Overhang	24	731
Packet lines	24	115
Packets	18	659
Paddle	21	92
Panama canal	21	233
	23	395
	29	101
tolls	21	238
Panting	24	731
Pennsylvania navigation	21	522
Peru navigation	21	645
Periaqua	22	115
Phœnix	25	556
Pillar	24	731
Pilot and pilotage	22	89
Pilot, coast	7	169
Pintle	24	731
Pirogue	22	115
Pitch	22	120
Polacca	22	286
Polacre	22	286
Poop	24	731
Port	24	731
Port Arthur Ship canal	22	378
	29	90
Portugal navigation	22	411
Privateer	22	611
Projection, gnomonic	13	355
Propellers	24	731
efficiency of	24	452
Ericsson	24	453
Griffith's	24	453
Hirsch	24	453
Jarrow	24	453
marine	24	451
Maudslay	24	453
Ressel	24	453
Ressel improved	24	453
screw	24	451
	25	560
slip	24	452
slow	24	453
speed of	24	452
tests of screw	24	452
Thornycroft	24	453
twin	24	454
Protractors, great circle	13	355
Pungy	24	731
Punt	24	731
Purchase	24	731
Quarantine	23	57
Quarter	24	731
deck	24	731
gallery	24	731
Quay	23	71
Rail	24	731
Railway, ship	24	724
Rake	24	731
Ratline	24	731
Reef	23	296
Registry of vessels	23	324
Repeater	23	384
Revenue cutter	23	443
Rhine river	23	461
Rhone river	23	478
Rhumb line	23	478
Rideau-Ottawa canal	5	454
	5	477
Rig	24	731
Rigging	24	731
ship	24	724
Rise	24	731
of bottom	24	731

General — cont'd	Vol.	Page
Rockets	23	45
Roll	24	731
Roman galleys	24	112
Rudder	23	751
	24	731
post	24	731
stop	24	731
Russian river systems	24	50
Sabine-Neches canal	29	91
Sagging	24	731
Sailcloth	24	112
Sailing records	24	117
Sailing speed	24	117
Sailing vessels	24	112
ancient, history	24	112
tonnage	24	118
Sails	24	721
Saint Lawrence canal	5	456
	5	457
	5	476
Saint Lawrence river	24	140
Saint Mary's Falls canal	24	723
	29	98
Saint Michael canal	29	101
Saint Peter's canal	5	478
Saint Petersburg canal	24	722
Salvage	24	213
Sampan	24	225
Samson post	24	731
Santo Domingo, merchant marine	24	286
Sault Sainte Marie canal	5	458
	5	477
	24	318
Savannah	13	257
Scheldt river	24	365
Schooner	24	115
	24	731
Schooners, modern	24	118
steel	24	725
Screw propellers	25	560
Screws, multiple	24	454
Scuppers	24	731
Sea anchor	24	731
Sealing vessels	24	481
Seaman	24	486
Search, right of	23	520
Seaports	13	689
Searchlight	24	488
Seas, freedom of	24	490
Seine river	24	533
Serpent boat	21	220
Sextant	24	629
Shackle	24	731
Shaft	24	731
tunnel	24	731
Shallop	24	654
Sheave	24	731
Sheer	24	731
Sheers	24	677
strake	24	731
Sheet	24	731
anchor	24	731
Shell plating	24	731
Ship	24	716
	24	731
Shipbuilding, early	24	114
industry	24	725
terms	24	729
United States	24	725
Ship canals	24	722
capacity	24	718
Ship construction	24	718
	24	727
Ship money	24	723
Ship railway	24	724
Ship Registry Act	24	724
Ship rigging	24	724
running	24	724
standing	24	724
terms	24	724

General — cont'd	Vol.	Page
Ship sails	24	721
Ship stores	20	3
Shipping, American Bureau of	1	502
Argentina	2	219
Australian	2	609
Board, United States	24	727
British	13	256
Dominican	9	246
Guiana	13	529
Netherlands	20	90
New Zealand	20	250
Norway	20	438
of principal nations	24	734
of the world	24	733
Portugal	22	411
Prince Edward Island	22	582
Siam	24	765
South American	17	36
Spain	25	329
subsidies	24	732
Austria	24	732
Belgium	24	372
Denmark	24	732
France	24	732
Germany	24	732
Great Britain	24	732
Holland	24	732
Italy	24	732
Japan	24	732
Norway	24	732
Russia	24	733
Spain	24	733
Sweden	24	733
United States	24	733
Shipping terms	24	729
Shipping, war losses	24	735
	28	651
world	24	733
Ships, cargo and ballast	24	722
clipper	24	116
concrete	7	474
methods of construction	7	474
Dutch	24	113
fabricated	24	720
fire	11	248
first American	24	114
iron and steel	24	720
iron hull	24	118
keel and frame	24	719
launching	24	720
masts and spars	24	721
measurement of	18	481
merchant	24	113
rigging	24	721
Viking	24	112
Shore line	24	745
Shrouds	24	731
	24	759
Signals, marine	24	801
naval	24	800
night	24	800
of distress	24	800
Skerryvore lighthouse	25	69
Skids	24	731
Skin boats	5	512
Sling	24	731
Slippage	25	98
Sloop	24	731
Smack	25	101
Snubbing post	24	731
Soo canal	24	318
tonnage	24	319
Soulanges canal	5	458
	5	477
South American river transportation	17	38
Spanish Armada	24	113
Spar deck	24	731

General — cont'd	Vol.	Page
Spars	24	721
	24	731
Speed boats	19	515
Sphereograph	13	875
Spherograph	25	402
Sprit	24	731
	25	460
Stability	24	731
Stanchion	24	731
Starboard	24	731
Stay	24	731
Stealer	24	731
Steam, application of to navigation	13	257
Steamboats, early	25	553
Maine coastal	25	558
Western river	25	558
Steamers	18	659
lake	25	557
Steam navigation on the Great Lakes	25	557
Steamships, first to cross Atlantic	9	218
Steamship speeds	25	436
Steamships, coastwise	25	559
ocean	25	558
steel	24	726
transatlantic records	25	436
turbine	27	174
Steam vessels	25	553
first American	25	554
Steel schooners	24	725
Steel steamships	24	726
Steerage	25	609
Stem	24	731
Stemson	24	731
Stern	24	731
frame	24	731
Sternson	24	731
Strake	24	731
Stringer	24	731
Sues canal	25	789
Supercargo	7	398
Symington's Clermont	13	257
Tackle	24	731
	26	204
Taffrail	24	731
log	17	594
Tank top	24	731
Thames river	26	487
Tholes	24	731
Thrust block	24	731
Tides	26	611
See also Oceanography.		
Tie plate	24	731
Tiller	24	732
Tonnage	26	687
deadweight	26	688
displacement	26	688
gross	26	688
measurement	26	688
net	26	688
Trade, carrying	24	115
Transatlantic records	25	436
Transom	24	732
Transport	27	8
Transverse frame	24	732
Trend	24	732
Trestletrees	24	732
Trim	24	732
Tugboat	27	132
Tumble home	24	732
Turbine navigation	27	173
Turbine passenger steamship	27	174
Turbinia experiments	27	173
Underwriters' registry	17	550

General — cont'd	Vol.	Page
United States Commerce Court	27	551
United States foreign commerce	27	499
United States merchant marine	18	657
United States Shipping Board	18	662
	24	727
Upper deck	24	732
Vertical keel	24	732
Vessels, entry and clearance of	28	44
merchant, neutral rights	18	664
transfer from belligerents to neutrals	18	665
registry of	23	324
sailing	24	112
speed of	24	718
steam	25	553
first American	25	554
tonnage and commerce	7	370
Viking ships	24	112
Volga river	28	173
Waist	24	732
Warping	24	732
Water line	24	732
Waterways, Alabama	29	87
Alaskan	29	101
Atlantic Coast	29	82
Baltimore district	29	85
California	29	98
Connecticut	29	83
Great Lake system	29	96
Gulf Coast	29	87
Hawaiian	29	101
Indiana	29	95
inland	15	139
internal, Russian	24	50
Kentucky	29	96
and Ohio	29	97
Keweenaw	29	97
Louisiana	29	88
Maine	29	82
Massachusetts	29	83
Mississippi	29	88
system	29	92
Montana	29	99
New Hampshire	29	83
New Jersey	29	84
New York	29	84
of Middle Atlantic States	29	85
of North Middle States	29	94
of South Atlantic States	29	86
of United States	29	82
Ohio	29	95
Oregon	29	99
Pacific Coast	29	98
Paraguay	21	281
Pennsylvania	29	84
	29	95
Porto Rico	29	101
Puyallup	29	100
Rhode Island	29	83
Russian	24	49
Tennessee	29	94
Texas	29	90
Vermont	29	83
Virginia	29	95
Washington	29	99
West Virginia	29	95

General — cont'd	Vol.	Page
Wilmington district	29	86
Weather deck	24	732
Weitzel lock	29	97
Well	24	732
Welland canal	5	454
	5	477
	29	178
Wharf construction	29	237
Wharves	29	237
Whatcom creek waterway	29	100
Williamsburg canal	5	454
	5	477
Winch	24	732
Wireless telegraphy	26	345
Wire rope	29	414
Whalebacks	25	560
Wherry	29	254
Willapa harbor	29	100
Wreck	29	565
Wreckage	29	566
Xebec	29	596
Yachting	29	601
American	29	602
English	29	601
international	29	602
Records	25	435
rules	29	603
Yachts	29	601
gasoline	29	604
racing	29	603
speed of	29	604
steam	29	604
Yard	24	732
arm	24	732
Yawl	29	617
Yellowstone river	29	630
Yukon river	29	101
Zenith, declination of	20	14
See also Building and Construction; Commerce and Industry; under Engineering — Civil Engineering and Marine Engineering; Oceanography; Transportation and Communication.		

Biographies

Beeching, James	17	409
Cramp, Charles H	8	152
Cunard, Sir Samuel	8	301
Eckford, Henry	9	545
Gabellini, Carlo	7	474
Grace, William Russell	13	102
Greathead, Henry	17	409
Herreshoff, John Brown	14	145
Herrshoff, Nathaniel Greene	14	146
Humphreys, Joshua	14	496
Laird, John	16	654
Lawley, George	17	143
Lukin, Lionel	17	409
McKay, Donald	18	63
Nixon, Lewis	20	379
Palmer, Sir Charles Mark	21	212
Peabody, Cecil Hobart	21	437
Peake, James	17	409
Schwab, Charles M	24	409
Shreve, Henry Miller	24	757
Smith, Archibald Carey	25	113
Webb, William Henry	29	143
Wouldhave, William	17	409

SHOES, HIDES AND LEATHER

Shoes

	Vol.	Page
Adjustment	17	190
Alaska	17	190
Aloft	17	190
Ankle brace	17	190
Arch	17	190
Arctic	17	190
Backstay	17	190
Bal	17	190
Ball	17	190
Ballet slipper	17	190
Barefoot sandal	17	190
Baseball shoe	17	190
Bathing shoe	17	190
Bath slipper	17	190
Beaver-top	17	191
Bedroom slipper	17	191
Bellows tongue	17	191
Bench-made	17	191
Bicycle bal	17	191
Blacking	4	42
	17	191
Blind eyelet	17	191
Bloom	17	191
Blucher	17	191
ball	17	191
Boot	4	250
	17	191
Boots and shoes	4	254
export trade	24	741
history of	4	254
leather	4	257
machines	17	257
process of manufacture	4	258
Boots and shoe, industry	4	260
industry in Canada	5	446
Bootee	17	191
Boot jack	17	191
Bottom finish	17	191
Boxing	17	191
Bracelet tie	17	191
Break	17	191
Breast of heel	17	191
Brogan	4	256
Brogue	17	191
Brogued vamp	17	191
Buckram	17	191
Buffalo sole	17	191
Burnish	17	191
Buskin	5	75
	17	191
Button-fly	17	191
Cack	17	191
Calceus	4	255
Caliga	4	255
Calking machine	17	191
Carriage boat	17	191
Carton	17	191
Case	17	192
Cement	17	192
Channel	17	192
Channelling	4	259
Children's sizes	17	192
Chopin	6	590
Circlet	17	192
Circular vamp	17	192
Clicker	15	99
Clog	17	192

Shoes — cont'd

	Vol.	Page
Cobbler's seam	17	192
Collar	17	192
College boot	17	192
Colonial	17	192
Combination last	17	192
Comfort shoes	17	192
Congress gaiter	17	192
Copper toe	17	192
Corduroy	17	192
Cordwainer	4	2.6
Cothurne	17	192
Cothurnus	4	255
Counter	17	192
Court tie	17	192
Cowboy boots	17	192
Creaser	17	192
Creedmore	17	192
Creole	17	192
Crepida	4	255
Crimp	17	192
Crimped vamp	17	192
Cuff	17	192
Cupped sole	17	192
Cushion sole	17	192
Custom made	17	192
Custom toe	17	192
Cut-off vamp	17	192
Dom Pedro	17	192
Dongola	15	100
	17	192
Dress shoes	17	192
Eclipse tie	17	193
Edge setting	17	193
Edge trim	17	193
Endromis	10	324
English last	17	193
English welt	17	193
Everett	17	193
Extension	17	193
Eyelet	17	193
Eyeletting	4	258
Fabrics	17	193
Fair stitching	17	193
Fancy slippers	17	193
Faust slipper	17	193
Felt	17	193
Filler	17	193
Findings	17	193
Finger foxed	17	193
Finger stitching	17	193
Fitting	17	193
stool	17	193
Fixture	17	193
Flange heel	17	193
Flat foot	17	193
Flat last	17	193
Folded edge	17	193
Foot form	17	193
Foothold	17	193
Foot muff	17	193
Foxing	17	193
Freak shoes	17	193
French chalk	17	193
French sizes	17	193
French size marking	17	193
Fudge edge	17	194
Full double sole	17	194
Full serge	17	194

Shoes — cont'd

	Vol.	Page
Full vamp	17	194
Gaiter	17	194
Golf disks	17	194
Golf shoe	17	194
Goloshes	13	39
Goodyear welt sewing machine	4	257
Goring	17	194
Gussett	17	194
Gypsy seam	17	194
Half double sole	17	194
Half sole	17	194
Heel	17	194
Heel brace	17	194
Heel pad	17	194
Heel plate	17	194
Heel seat	17	194
Heel-stay	17	194
Hemlock sole	17	194
Hessian boot	4	250
Hip boots	17	194
Hobnail	17	194
Horn (shoe)	17	194
Horn fibre	17	194
Hunting boot	17	194
Inlay	17	194
Inseam	17	194
Insole	17	194
Iron	17	194
Ironing out	17	194
Jack boot	4	256
	17	194
Jockey boot	17	194
Juliet	17	194
Knurl	17	195
Knurled bottom	17	195
Lace	17	195
hook	17	195
stay	17	195
Lapstone	17	195
Larrigan	17	195
Last	4	259
	17	195
standards, American	17	195
Lasting tacks	17	195
Leg boot	17	195
Legging	17	195
Lift	17	195
Linings	17	195
Louis heel	17	195
Low-cut	17	195
Lumbermen's overs	17	195
Lunata pellis	4	255
McKay sewed	17	195
McKay stitching machine	4	257
Measurement (foot)	17	196
Mining shoes	17	196
Moccasin	17	196
Mock welt	17	196
Molded counter	17	196
Mouquet slipper	17	196
Mule	17	196
Napoleon boot	17	196
Napoleon tap sole	17	196
Nippers	17	196
Nullifier	17	196
Opera slipper	17	196

Shoes — cont'd	Vol.	Page
Orthopedic shoes	17	196
Outsole	17	196
Over-gaiter	17	196
Oxford	17	196
Pack	17	196
Paris Point	4	259
Pasted counter	17	196
Patricia luna	4	255
Patten	17	197
Patterns	17	197
Peg cutter	17	197
Pegged boot	17	197
Perforation	17	197
Pieced counter	17	197
Pitch	17	197
Plow boots	17	197
Plugged oxford	17	197
Polish	17	197
Polish boot	17	197
Prick-stitched	17	197
Prince Albert	17	197
Prunella	22	714
Pull strap	17	197
Pump	17	197
Pump sole	17	197
Puttee	17	197
Quarter	17	197
Rand	17	197
Raw eyelets	17	197
Recede	17	197
Reserve shoes	17	197
River-driving shoes	17	197
Roman sandal	17	197
Romeo	17	197
Rope stitched	17	197
Rubber cement	17	198
Rubber footwear	24	741
Rubber heels	17	198
Rubber shoes	17	198
	23	741
	24	741
Running shoes	17	198
Russian boot	17	198
Sabots	4	256
	17	198
	24	85
Saddle seam	17	198
Saddle welting	17	198
Sailor tie	17	198
Sandal	4	254
	17	198
Satin	17	198
Scoot shop	17	198
Scotch edge	17	198
Screw fastened	17	198
Scuffer	17	198
Serge	17	198
Shank	17	198
Shoes	4	254
	17	198
Shoe exports	24	741
Shoe horn	17	198
Shoe industry in the United States	24	739
Shoe-making machinery	18	61
Shoe measurements	17	196
Shoe production	24	740
Shoe styles	24	741
Shoes, rubber	24	741
Show case	17	198
Side laced boot	17	198
Size	17	196
Size-stick	17	198
Skivers	17	199
Skiving	4	258
Slide	17	199
Slip sole	17	199
Slip tap	17	199
Slipper	17	199
foxed	17	199
Sneakers	17	199
Soccus	4	255

Shoes — cont'd	Vol.	Page
Sock lining	17	199
Soft sole	17	199
Soft toe	17	199
Soles	17	199
Southern tie	17	199
Spanish heel	17	199
Sparable	17	199
Spats	17	199
Spiced heel	17	199
Sporting shoes	17	199
Spring	17	199
Standard screwed shoes	17	199
Staple	17	199
Stitched down	17	199
Stogie	17	199
Storm boot	17	199
Storm rubber	17	199
Straight last	17	199
Street shoes	17	199
Styles in footwear	24	741
Style	17	199
Swing	17	199
Tap	17	200
Tennis shoe	17	200
Thong	17	200
Throat	17	200
Tibialia	4	255
Tie	17	200
Tip	17	200
Tongue	17	200
pad	17	200
Top	17	200
boot	4	256
facing	17	200
lift	17	200
Tread	17	200
Tree (shoe)	17	200
Turned shoe	17	200
Two-piece counter	17	200
Vamp	17	200
Upper	17	200
Velvet	17	200
Velveteen	17	200
Ventilated shoe	17	200
Vesting	17	200
Vienna cut	17	200
Waist	17	200
Walking boot	17	200
Wave top	17	200
Wellington boot	4	250
	17	200
Welt	17	200
Wheeling	17	200
Width	17	200
Wooden-pegged	17	200
Work shoes	17	200

Leather

Leather — cont'd	Vol.	Page
Acid tanned	17	190
Alum tanned	17	190
Back	15	98
Basil	17	190
Bating	15	99
Beaded	17	190
Belting	17	191
Bend	17	191
Boarded	17	191
Box calf	15	99
	17	191
Branning	15	99
Bronze kid	17	191
Brush kid finish	4	256
Buck	17	191
Buckskin	4	670
	17	191
Buff	17	191
leather	4	688
Butt	15	99
Cabaretta	17	191
Calfskin	17	191
Castor	17	192

Leather — cont'd	Vol.	Page
Chamois	6	268
	17	186
	17	192
Chemical tanning	17	188
Chrome leather	15	99
Chrome sole	17	192
Chrome-tanned	17	192
Chrome tanning	15	285
Coltskin	17	192
Cordovan	4	256
	7	192
	7	690
Cowhide	17	192
Crop	15	100
Crup Butt	15	100
Cure	15	100
Cutch	8	339
Depilation	17	188
Dull calf	17	192
Elkskin	17	193
Embossed leather	17	193
Enamel	17	193
Fat liquor	15	101
Finish	17	193
Finishing processes	17	189
Flesher	15	101
French calf	17	193
Fluffing	15	102
Frizing	15	102
Glazed kid	17	194
Glove grain	17	194
Glucose	17	194
Goatskin	12	741
	17	194
Grain	17	194
Graining	13	112
	15	102
Gun metal	17	194
Harness leather	17	194
Hides	17	194
Hides and leather, in Argentina	17	61
in Bolivia	17	61
in Brazil	17	61
in Chile	17	61
in Ecuador	17	61
in Latin America	17	61
in Paraguay	17	61
in Peru	17	62
in Uruguay	17	62
in Venezuela	17	62
Hides and skins	17	187
composition of	17	187
sources of	17	187
uses of	17	187
Kangaroo	17	194
sides	17	194
Kid	17	192
	17	195
Kip	17	195
Kip leather	15	103
Latin America, hides and leather in	17	61
Layer	15	103
Leather	4	257
	17	187
	17	195
	29	77
Leather and shoe trade, technical terms	17	190
Leather board	17	195
Leather, chamois	17	186
composition of hide and skins	17	187
making in Canada	5	446
manufacture and uses	17	187
substitutes	17	200
Levant	17	195
morocco	17	326
Maroquin	19	471
Mat	17	195
kid	17	195

Leather — cont'd	Vol.	Page
Mineral tanning	26	247
Morocco	15	103
	17	196
	19	471
Myrobolans	19	661
Neat leather	17	196
Nubuck	17	196
Oak sole	17	196
Oak tanned	17	196
Oil grain	17	196
Oil tawing	26	248
Ooze calf	17	196
Paddling	15	103
Packer hides	17	196
Pancake	17	196
Patent leather	17	196
Pebbled goat	17	197
Pipe	17	197
clay	17	197
Piping	17	197
Rawhide	23	236
Retanned sides	17	197
Roan	15	104
Russia	15	104
	17	198
Russet	17	198
Saddle	24	98
Satin calf	17	198
Seal grain	17	198
Setting	15	104
Shagreen	24	640
	24	659
Sheepskin	17	198
Shrewsbury calf	17	198
Side	17	198
Side leather	17	198
Skins	17	199
Smoked elk sides	17	199
Snuff	17	199
Snuffed chrome kip	17	199
Sole leather	17	199
Souring	15	104
Spewing	17	199
Split	15	104
	17	199
leather	17	201
Suede	17	199
calf	17	199
Tan	17	199
	17	200
Tanning	17	199
	26	246
chemical	17	188
chrome	17	188
depilation	17	188
finishing process	17	189
in liquor	26	247
materials	17	188
mineral	26	247
oil	26	248
preliminary process	17	187
process	26	246
vegetable	26	246
Taw	17	200
Union sole	17	200
Vamping	15	105
Velours	17	200
Velvet finished	17	200
Vici	17	200
Vici finish	4	256
Viscolize	17	200
Warble	15	105
Water proofing	29	77
Wax calf	17	200
Willow calf	17	200

SOCIETIES AND ORGANIZATIONS

Artistic, Literary and Educational

	Vol.	Page
Academy of Arts and Letters	1	63
Academy of Fine Arts, The	1	64
Academy of Fine Arts, Imperial Russian	1	64
Academy of France at Rome	1	64
Academy of Inscriptions and Belles-Lettres	1	64
Actors' Church Alliance of America	1	109
Actor organizations	26	499
Amateur Athletic Association	22	34
American Academy of Arts and Sciences	4	495
American Artists, The Society of	25	206
of Natural Sciences	21	732
American Folk-Lore Society	1	521
American Library Association	1	527
American Lyceum Association	1	541
	17	770
Amateur Photographers, Society of	22	3
American Institute of Instruction	1	522
American Posture League, The	22	34
Apollo Club	6	592
Art Society of Pittsburgh, The	22	131
Arundel Society	2	370
Association of Catholic Colleges of The United States	2	424
Authors, American Society of	2	639
Authors, British, Society of	2	640
Authors' Club	2	640
Authors, French, Society of	2	640
Authors' League of America, The	2	640
Beethoven Society	6	591
Berlin Singakademie	6	591
Bradford Club	4	229
Bannatyne Club	4	229
Book Club	4	229
British and Foreign School Society	4	561
Chautauqua Societies	6	367
	17	770
Cecelia Society	6	591
Choral societies	6	591
Choral Symphony Society	6	592
Club in New York, The	4	229
Drama League of America	9	310
Drama Society, The	9	311
Early English Text Society	4	229
Gaelic League	15	321
Grolier Club	4	229
Handel Festival	6	591
Handel and Haydn of Boston	6	591
Hakluyt Society	4	229
Intercollegiate Association of Amateur Athletes of America, The	22	34
Independent Musical Society	11	683
Irish Language, Society for the Preservation of	15	332
Irish Literary Society of London	15	333
Irish Literary Society	15	342
Irish Texts Society	15	360
Irish National Theatre Society, The	15	337
Lamb's Club, The	16	675
Life Extension Institute, The	22	34
Municipal Art Societies	19	573
Minneapolis Symphony Orchestra	19	199
National Collegiate Athletic Association	22	34
National Education Association	19	731
National Literary Society of Ireland	15	337
National Society for Broader Education	9	591
National Society of Music	11	682
New York Choral Society	6	591
New York Sacred Music Society	6	591
Ormond Dramatic Society	15	337
Pan-Celtic Society	15	333

Artistic, Literary and Educational — cont'd Vol. Page
Parent Teachers' Associations 21 298
Percy Society..... 4 229
Philadelphia, Academy of Natural Sciences .. 21 732
Philadelphia Chorus..... 6 591
Philharmonic societies.. 21 740
Playground and Recreation Association of America, The..... 22 34
Pre-Raphaelites 22 517
Professional Woman's League, The..... 22 633
Prince Society..... 4 229
Public School Athletic Leagues for Boys and Girls 22 34
Roxburghe Club..... 4 229
23 734
Royal Scottish Society of Arts..... 22 1
Saint Luke, Guilds of.. 24 152
Salmagundi Club..... 24 190
Secessionists 24 509
Shakespeare societies.... 24 652
Shorthand Society in London 24 752
Sculpture Society, National 24 469
Scriblerus Club, The.... 24 455
Society of American Artists 21 123
25 206
Southwark Irish Literary Club..... 15 333
Southwark Junior Irish Club 15 333
Stoughton (Mass.) Musical Society..... 6 591
Young Men's Christian Association Athletic League, The..... 22 34
See also Institutions, Organizations, etc., under other general divisions

Benevolent

American Red Cross.... 22 759
23 279
Benevolent Orders..... 3 509
Catholic Benevolent Legion 6 64
Charities, Public..... 6 307
Charity Organization Society 6 309
Children's Aid Society.. 6 486
Foresters of America... 11 477
Friendly Society..... 12 105
Golden Seal, Order of the 13 28
Heptasophs, Improved Order of 14 110
Improved Order of Red Men 14 729
Jewish Fraternities..... 16 60
Jewish National organizations in the United States 16 60
Jewish Women's Council 16 61
King's Daughters and Sons, International Order of..... 16 445
Knights of the Golden Eagle 16 485
Knights and Ladies of Honor 16 486

Benevolent — cont'd Vol. Page
Knights of Saint John and Malta..... 16 487
Locomotive Engineers Mutual Life, The..... 23 160
Ladies' Catholic Benevolent Association, The. 16 642
Ladies of The Maccabees 16 642
Mothers' Clubs..... 19 512
National Red Cross.... 23 278
National Conference of Charities and Correction 19 728
National Florence Crittenton Mission..... 8 214
National Union..... 19 743
Philadelphia Saving Fund Society..... 3 189
Provident Loan Society. 21 429
Railway brotherhoods.. 23 160
Railway labor organizations 23 160
Red Cross societies..... 23 278
Red Men's League..... 14 730
Saint Patrick's Funeral Benefit Society..... 14 166
Scottish Clans, Order of 24 447
Shut-In Society..... 24 761
Society of Friends in Need 10 729
Society of Saint Vincent de Paul..... 25 206
Swan, Order of the.... 26 110
Trade unions..... 26 763
United Hebrew Charities 16 127
United Workmen, Ancient Order..... 27 565
Workingmen's clubs.... 29 519
Workingwomen's clubs.. 29 519
29 469
White Cross..... 29 270
Woman's Benefit Association of the Maccabees, The..... 29 454

Fraternal

Alhambra, Order of the 1 398
Alpha Tau Omega..... 13 402
Ancient Order of United Workmen 27 583
Alpha Delta Phi..... 13 407
Alliance Israelite Universelle 16 143
Alpha Sisters of the Eastern Star..... 9 512
American Legion, The.. 1 527
Arbeiter Ring..... 16 137
Ben Hur, The Tribe of 3 498
Beta Theta Pi..... 13 402
B'Nai B'Rith, Independent Order of..... 4 134
Brith Abraham, Independent Order..... 4 553
Brothers of the Three Dots 18 386
Brotherhood of American Yoemen 4 598
Burschenschaft 5 67
Catholic Knights of America 6 94
Catholic Mutual Benefit Association, The..... 6 94
Chi Psi..... 13 402
College fraternities 13 401
Cowans 18 384
Delta Phi..... 13 401
Delta Psi..... 13 402
Delta Kappa Epsilon... 13 402
Delta Upsilon..... 13 402

Fraternal — cont'd Vol Page
Druids, The United Ancient Order of..... 9 351
Eastern Star, Order of the 9 511
Elks, Benevolent and Protective Order of... 10 251
Foresters, Ancient Order of 11 476
Foresters, The Independent Order of.... 11 476
Fraternal organizations, membership 12 24
Fraternal societies in America 12 23
Frères Trois Points..... 18 386
Free Sons of Israel, Independent Order of 12 44
Grand Orient of France 18 386
Greek-Letter societies.. 13 401
Hibernians, Ancient Order of..... 14 166
Independent Order Brith Abraham 16 137
Independent Order B'nai B'rith..... 16 137
Independent Order Free Sons of Israel..... 16 137
Independent Order Sons of Benjamin 16 137
Independent Order of Red Men..... 24 517
Irish Catholic Benevolent Union..... 15 329
Junto, The..... 16 252
Kamehameha, Order of. 16 287
Kappa Alpha..... 13 401
Kappa Sigma..... 13 402
Knights of Columbus.. 16 484
Knights of Honor..... 16 485
Knights of Pythias.... 16 486
Knights Templars and Masonry 18 587
Legend of the Third Degree 18 384
Maccabees, The..... 18 29
Maccabees, The Ladies of the..... 18 19
Maccabees, The Woman's Benefit Association of 18 19
Masonic Fraternity..... 18 383
Masonic Fraternity, Appeal to Antiquity.... 18 384
Masonic Fraternity in Great Britain and on the Continent..... 18 384
Masonic Lodge in America, First..... 14 437
Masonic Unity..... 18 388
Masonry, early history in America..... 18 386
Masonry, Russia..... 18 386
Moose, Loyal Order of.. 19 436
Mystic Shrine, Ancient Arabic Order of Nobles of The 19 665
National Fraternal Congress 12 23
New England Order of Protection 20 121
Odd Fellows, The Independent Order of.. 20 576
Order of The Eastern Star 18 389
Organization and degrees 18 388
Phi Beta Kappa..... 13 401
Phi Delta Theta..... 13 402
Phi Gamma Delta..... 13 402
Phi Kappa Psi..... 13 402
Phi Kappa Sigma..... 13 402
Phi Sigma Kappa..... 13 472
Psi Epsilon 13 401

Fraternal — cont'd Vol Page

Royal Arcanum, The... 23 735
Secret Monitor..... 18 388
Sigma Alpha Epsilon... 13 402
Sigma Chi..... 13 402
24 799
Sigma Nu..... 13 402
Sigma Phi..... 13 401
Theta Delta Chi..... 13 402
United American Mechanics, Order of 27 301
United American Mechanics, Junior Order of 27 301
Woodmen of America, Modern 29 496
Woodmen of the World Sovereign Camp..... 29 496
Zeta Psi..... 13 402

Historic and Patriotic

African International Association 1 225
American Asiatic Association 1 499
American Historical Association 1 521
American-Irish Historical Society..... 1 522
American Scenic and Historical Preservation Society 1 558
Arlington Confederate Monument Association. 2 262
Aztec Club..... 2 690
Brooklyn Historical Printing Club..... 4 229
Camden Society..... 4 229
5 257
Cincinnati, Society of the 6 683
Clan-na-gael 7 32
Colonial Dames of America, National Society of 7 286
Colonial Wars, Society of 7 289
Colonization Society..... 11 226
Confederate Veterans' Association 7 493
Dames of the Revolution 8 430
Daughters of the American Revolution..... 8 493
Daughters of the Confederacy, United..... 8 493
Daughters of the Holland Dames..... 8 493
Daughters of the Revolution 8 493
Founders and Patriots of America, The..... 11 541
German League..... 21 225
Grand Army of the Republic 13 122
Historical Society of Western Pennsylvania, The 22 131
Huguenot, Society of America, The..... 14 482
Instituto Historico e Geographico Brazileiro 15 174
Long Island Historical Society 17 639
Loyal Legion of the United States..... 17 706
Massachusetts Historical Society 18 411
Mayflower Descendants, Society of..... 18 466
Minnesota Historical Society 19 208
National Society of the Sons and Daughters of the Pilgrims, The..... 19 742

Historic and Patriotic — cont'd Vol Page

Naval Order of the United States 20 3
Naval Veterans, National Association of..... 20 5
New England Historic and Genealogical Society, The..... 20 121
New York Historical, Society, The..... 20 241
Pan-German League..... 21 225
Patriotic societies..... 21 404
Pennsylvania German Society 21 537
Pennsylvania Historical Society 21 537
Porto Rico Expedition, Military and Naval Society of the..... 22 406
Royal Historical Society 23 736
Settlers and Defenders of America, The..... 24 608
Seventy-six Society..... 4 229
Sons of America..... 11 309
Sons of the American Revolution 25 259
Sons of the Revolution.. 11 309
25 259
Sons of Veterans..... 25 259
Spanish-American Athenæum 25 343
Spanish-American War, The Naval and Military Order of..... 25 343
Spanish War Veterans.. 25 359
Spanish War Veterans, National Auxiliary of. 25 359
Union League of America, The..... 27 287
United Daughters of the Confederacy 27 303
United States Daughters of 1812..... 27 551
Veterans of Indian Wars of the United States, Society of..... 28 47
War of 1812, General Society of..... 28 692
War of 1812, Military Society of..... 28 692
Woman's Relief Corps.. 29 456

Industrial, Commercial and Labor

Agricultural Association 1 243
Agricultural societies, Japanese 15 719
Agricultural Society of Leipzig 1 248
Amalgamated Labor Union 1 518
American Association for Labor Legislation.... 1 499
American Bureau of Shipping 1 502
American Federation of Labor 1 517
5 475
13 42
16 613
American Legislative Association 1 527
Association of Railway Master Mechanics..... 7 385
Atlantic States Canned Goods Packers' Association 5 507
Bath and West of England Society..... 1 243

Industrial Commercial and Labor — cont'd Vol. Page

Brotherhood of Locomotive Engineers, The 23 160
Brotherhood of Locomotive Firemen, The.. 23 161
Brotherhood of Railway Carmen, The..... 23 161
Brotherhood of Railroad Trainmen 23 161
Canned Goods Exchange 5 507
Carriage Builders' National Association 5 670
Chambers of Commerce. 6 264
Citizens, Industrial Association of America, The 6 705
Commercial associations 7 385
Commission on Country Life 11 31
Consumers' League..... 7 581
Co-operative Newspaper Society 13 289
Co-operative societies.... 12 580
Co-operative Wholesale Society of England.... 13 288
Employers' associations. 10 302
Fabian Society 13 286
Federation of Labor, American 1 517
5 475
16 613
Federation of Organized Trades and Labor Unions of the United States and Canada.... 1 518
Fishmongers' Guild..... 13 535
Goldsmiths' Guild..... 13 535
Good Roads Association. 13 56
Grocers' Guild..... 13 535
Highland and Agricultural Society of Scotland 1 243
Holstein-Friesian Society of Canada..... 5 432
International Association of Car Workers..... 23 161
International Brotherhood of Maintenance of Way Employees, The 23 161
Irish Co-operative Organization Society..... 13 270
International Institute of Agriculture..... 15 254
International Workingmen's Association..... 15 266
Knights of Industry.... 1 518
Knights of Labor..... 1 518
5 474
16 485
25 620
Knights of The Royal Arch 16 487
Labor Association, British 13 289
Labor organisations, foreign 16 605
Manufacturers, National Association of..... 18 242
Massachusetts Society for the Promotion of Agriculture 1 243
National Association of Manufacturers 19 725
National Consumers' League 7 581
National Civic Federation 19 727
National Electric Light Association 22 13
National Labor Union... 1 518

Industrial Commercial and Labor — cont'd Vol. Page
North of England Co-operative Wholesale Society ... 13 288
Pan-American Union ... 21 224
Railway brotherhoods ... 23 160
Railway Conductors, Order of ... 23 145
Railway Grand Lodge ... 23 160
Railway labor organizations ... 23 160
Railroad Telegraphers, Order of ... 23 161
Raisin Grower's Association ... 23 194
Redemptionists societies. 13 289
Rochdale Society of Equitable Pioneers ... 7 639
13 288
Royal Agricultural Society ... 1 243
13 270
Scottish Co-operative Wholesale Society ... 13 288
Societies of Improvers in the Knowledge of Agriculture ... 1 243
Society for Testing Materials ... 7 385
Switchmen's Union of North America ... 23 161
Trade associations ... 7 385
26 748
Trade Unions, General Federation of ... 26 764
Typographical Union, International ... 27 244
Union of all railway employees ... 23 161
United Baking Society of Glasgow ... 13 289
Western Canned Goods Packers Association ... 5 507

Insurance

Actuarial Society of America ... 1 112
Agrarian insurance associations ... 15 542
Ancient Order of the United Workmen ... 15 177
Associated Fraternities of America ... 15 179
Fraternal and benevolent societies ... 15 188
General Indemnity Insurance Company ... 22 228
Hildise Bund ... 15 180
Plate Glass Insurance Company, The ... 22 228
Prudential Friendly Society ... 15 180
Widows' and Orphans' Friendly Society ... 15 180

Philosophical

Academies in America ... 1 61
Academy of Moral and Political Science ... 1 64
Accademia della Crusca. 1 63
Accademia de' Lincei ... 1 63
American Philosophical Society ... 1 550
American Psychological Association ... 1 558
Brethren of Purity ... 2 124
British Academy ... 1 63
College du gai savoir et de la gaie science (College of Gay Knowledge and of Gay Science) ... 1 63

Philosophical — cont'd Vol. Page
Ethical movement and ethical societies in America and Abroad ... 10 537
Royal Irish Academy ... 1 63
Royal Society ... 1 63

Religious

Alliance of the Reformed churches holding the Presbyterian system ... 1 418
American Baptist Foreign Mission Society ... 1 500
19 230
American Bible Society. 1 501
3 672
4 322
American Bible Society for the Levant ... 4 88
American Board of Commissioners for Foreign Missions ... 1 501
19 230
American Catholic Historical Society ... 1 502
American Federation of Catholic Societies, The 1 517
American Home Missionary Society ... 19 235
American Jewish Historical Society ... 1 525
American Missionary Association ... 4 385
American Sunday-School Union ... 1 566
26 35
American Tract Society, The ... 1 566
Angelists ... 8 430
Apostleship of Prayer ... 2 70
Baptist Missionary Society ... 19 230
Basel Missionary Society 19 230
Berlin Missionary Society ... 19 231
Bible Society ... 3 672
Bible societies ... 19 231
Blood of Our Saviour ... 4 112
Bollandists ... 4 192
Boni Homines ... 4 216
Bridge-Building Brotherhood ... 4 506
Brigittines ... 4 541
British and Foreign Bible Society ... 3 672
4 156
4 284
Brotherhood of Andrew and Philip, The ... 4 598
Brotherhood of Saint Andrew ... 4 598
Brothers and Clerks of the Common Life ... 4 599
Brothers of Charity ... 4 598
Brothers of the Christian Instruction ... 4 598
Brothers of the Christian Schools ... 4 598
Brothers of the Sacred Heart ... 4 599
Brothers of Our Lady of Lourdes ... 4 599
Caloyers ... 5 235
Catholic Debating Society ... 13 302
Catholic Missionary Union ... 6 94
19 241
Catholic Total Abstinence Union of America 6 101
Catholic Truth Society ... 13 302
Catholic Young Men's National Union ... 6 102

Religious — cont'd Vol. Page
Chartreuse ... 6 342
Chautauqua, Jewish ... 6 368
China Inland Mission ... 6 547
Christadelphians ... 6 598
Christ, Disciples of ... 6 596
Christian and Missionary Alliance ... 6 611
Christian Endeavor, Young People's Society of ... 6 610
Christian Knowledge, Society for the Promotion of ... 6 611
Christian Socialist Society ... 4 89
Christ, Order of the Knights of ... 6 597
Christ, Papal Order of ... 6 597
Church Missionary Society ... 19 230
Church of Scotland Foreign Missionary Committee ... 19 230
Church Temperance Society ... 6 661
Congregation of Our Lady of Calvary ... 7 500
Damianists ... 8 430
Danites ... 8 462
Daughters of the King, The Order of ... 8 493
Epworth League ... 10 439
Eremites of Saint Francis ... 10 472
Eremites of Saint Jerome 10 472
Esculapians ... 10 497
Evangelical Alliance ... 4 604
10 589
Federal Council of Churches ... 11 77
Fontevrault, Order of ... 11 428
Fraternities ... 12 24
French Bible Society ... 3 672
Grammontensians ... 4 216
Harmony Society ... 13 717
Hospitallers ... 14 433
Joachim, Saint, Order of 16 148
King's Daughters ... 4 319
Knights of the Annunciation ... 2 3
Lend a Hand Clubs ... 17 285
London Missionary Society ... 4 156
5 34
19 230
Luther League of America, The ... 17 755
Lyon's Society for the Propagation of the Faith ... 19 240
McAll Mission ... 18 6
Massachusetts Domestic Missionary Society ... 19 234
Massachusetts Missionary Society ... 19 234
Meda Society ... 19 44
Mercy, Fathers of ... 18 670
Mercy, Sisters of ... 18 670
Mide Society ... 19 44
Midewin Society ... 19 44
Midewiwin Society ... 19 44
Minims ... 4 216
Missionary Society ... 19 230
Missionary Society of Connecticut ... 19 234
Missionary Society of the Reformed Dutch Church ... 19 234
National Bible Society ... 3 672
National Federation of Churches and Christian Workers ... 15 174

Religious — cont'd Vol. Page

Netherlands Missionary Society 19 230
Open and Institutional Church League..... 11 77
Order of Grammont..... 4 216
Order of Jonathan..... 16 148
Order of Our Saviour... 4 541
Order of the Holy Sepulchre 20 766
Overcomers 21 59
Palestine Pilgrims' Text Society 21 202
Paris Evangelical Missionary Society..... 19 231
Paulist Fathers..... 19 240
Picpus, Society or Congregation of..... 22 69
Piux IX, Order of..... 22 138
Pomoryans 22 342
Presbyterian College Board 22 539
Prussian Central Bible Society of Berlin..... 3 672
Religious Education Association, The..... 23 354
Religious Tract Society. 3 672
4 156
5 34
Rhenish Missionary Society 19 231
Rosicrucians 23 701
Sack Brethren..... 4 216
Society for Missions to Africa and the East.. 19 230
Society for Promoting Christian Knowledge.. 13 304
Society for Promoting the Education of the Poor in the Principles of the Established Church 13 305
Society for the Promotion of Christian Knowledge 19 229
Society for the Propagation of Christian Knowledge 4 407
Society for the Propagation of the Gospel in Foreign Ports..... 19 229
Sunday School Society.. 13 305
Sunday School Union... 4 219
Synodical organizations. 17 756
Wesleyan Methodist Missionary Society..... 19 229
White Cross Society.... 29 270
Woman's Missionary Society 19 231
Women's National Missionary Association... 27 571
World's Sunday-School Association 4 219
Young Men's Christian Association 29 653
Young People's Christian Endeavor Union of the United Brethren in Christ 29 663
Young People's Christian Union 27 571
Young Women's Christian Association..... 29 665

Scientific — Technical

Académie des Inscriptions et Belles-Lettres 15 171
Académie des Sciences at Paris..... 15 171
22 41
Académie Française..... 15 170
Academy of Medicine... 1 64

Scientific — Technical — cont'd Vol. Page

Academy of Natural Sciences of Philadelphia. 1 64
Academy of Sciences.... 1 65
Academy of Science and Art, The..... 22 131
Academy of Science, Imperial Russian..... 1 65
Agassiz Association..... 1 232
American Academy of Medicine, The..... 1 495
American Academy of Political and Social Science, The..... 1 496
American Antiquarian Society 1 496
American Association for the Advancement of Science 1 499
American Astronomical Society, The..... 1 500
American Bar Association, The..... 1 500
American Bison Society. 19 394
American Chemical Society, The..... 1 502
American Climatological Association 1 503
American Economic Association, The..... 1 514
American Electro-Therapeutic Association..... 1 514
American Entomological Society 1 514
American Exploration Society 3 658
American Forestry Association 1 521
American Institute of Architects 1 521
American Institute of the City of New York. 1 521
American Institute of Electrical Engineers... 1 522
American Institute of Homœopathy 1 522
American Institute of Mining Engineers..... 1 522
American Mathematical Society 1 541
18 429
American Medical Association 1 541
18 543
American Medico-Psychological Association. 15 150
American Meteor Society 17 178
American Microscopical Society 1 542
American Numismatic and Archæological Society 1 548
American Ornithologists Union 1 548
American Osteopathic Association 21 33
American Palestine Exploration Society..... 3 658
American Philological Association 1 550
American Philosophical Society 2 458
American Social Science Association 1 63
American Railway Engineering Association... 4 507
American Society of Civil Engineers 1 563
American Society of International Law..... 15 261
American Society of Mechanical Engineers.... 1 563

Scientific — Technical — cont'd Vol. Page

American Society for Physical Research..... 22 732
American Veterinary Medical Association... 28 47
American Wood-Preservers Association.... 1 567
Archæological Institute of America..... 2 152
Asiatic Societies..... 2 399
Association of Medical Superintendents of American Institutions for the Insane..... 15 150
Audubon Societies..... 2 537
Beaux-Arts Architects, Society of..... 3 397
Botanical Society of America 4 307
British Association for the Advancement of Science 4 558
British Mathematical Association 18 430
Deutsche Mathematiker-Vereinigung 18 429
Economic Society of Berlin 11 62
Electrochemical Society, American 10 193
Engineers Society of Western Pennsylvania, The 22 131
Entomological Societies. 10 400
Franklin Institute, The. 12 16
Geographical societies... 12 412
Geographical Society, American 12 413
Geographical Society of Baltimore 12 413
Geographical Society of Philadelphia 12 413
Geographical Society, Royal 12 413
Geological Society of America 12 418
German African Society. 11 343
Hamburg Society..... 18 429
Imperial Physico-Technical Institute in Charlottenburg 22 10
Imperial Technical Institute in Charlottenburg 22 11
Institute of France, The. 15 169
L'Académie des Sciences Morales et Politiques. 15 172
Landmarks Club, The... 16 702
London Mathematical Society 18 429
Massachusetts Horticultural Society..... 13 725
Mathematical Association of America..... 18 430
Mathematical societies and journals..... 18 428
Mathematical Society, The London..... 18 431
Meteorological Society, The Royal..... 18 714
Mining Engineers, American Institute of.... 19 182
Modern Language Association of America.... 19 286
National Academy of Sciences, The..... 19 724
Naval Architects and Marine Engineers, Society of..... 19 788
National Association for the Study and Prevention of Tuberculosis.. 19 725

Scientific — Technical — cont'd Vol. Page

National Committee for Mental Hygiene..... 15 150
Naturalists, American Society of..... 19 771
Naval Institute, United States 19 797
New York Academy of Sciences, The..... 20 239
Ohio State Archæological Historical Society..... 20 622
Ornithological societies in United States..... 21 4
Palestine Exploration Fund 21 202
Palestine Society..... 3 658
Pedic Society..... 22 270
Pharmaceutical Association 9 347
Pharmacopeial Convention 21 709
Philadelphia, The College of Physicians of.. 21 732
Philatelic associations, American 21 736
Philatelic Society, The London 21 736
Philological Society, British 21 767
Psychical Research, Society of..... 22 732
Physical Society, American 22 31
Physical Society of London 22 31
Royal Academy of Sciences, The..... 23 734
Royal Economic Society. 23 735
Royal Historical Society. 23 736
Royal Institution of Great Britain..... 23 736
Royal Society of Edinburgh 23 737
Royal Society of London 22 41
23 737
Sciences, National Academy 24 416
Scientific societies..... 24 421
Shorthand Standardization 24 753
Smeatonian Society of Civil Engineers..... 13 311
Society of American Foresters 11 477
Society of Canadian Civil Engineers 13 599
Societies of Civil Engineers 13 311
Society for Electrical Development 25 206

Scientific — Technical — cont'd Vol. Page

Société Mathématique de France..... 18 429
Societies of Mechanics.. 13 534
Society of Naval Architects and Marine Engineers 25 206
Society of Telegraph Engineers and Electricians 13 312
Still, A. T., Research Institute 21 33
Surgical Association, American 26 87
Torrey Botanical Club.. 26 711
Washington Academy of Sciences 28 707
Wiskundig Genootschap 18 429

Miscellaneous

Amateur Athletic Union 2 498
American Association for Labor Legislation 1 499
14 34
American Civic Association, The..... 1 502
American Peace and Arbitration League..... 1 549
American Peace Society. 1 550
27 538
American Protective Association 1 557
American-Scandinavian Foundation 1 558
American Union against Militarism 27 538
Animals, Society for the Prevention of Cruelty to 1 708
Beefsteak Club..... 7 136
Black Hand..... 25 204
Boxers 24 517
Camorra 25 202
Camp Fire Club of America 5 272
Camp Fire Girls..... 5 272
Carbonari Society..... 5 593
13 50
Carnegie Endowment for International Peace... 5 635
27 538
Cobden Club, The..... 7 176
Colonization Society of America, The National 7 298
Columbian Order, The.. 26 235
Day nurseries..... 8 520
Democratic Societies in the United States.... 8 669

Miscellaneous — cont'd Vol. Page

Efficiency Society..... 9 719
Fabian Society..... 10 691
General Federation of Women's Clubs..... 29 466
Girls' Clubs..... 12 666
Good Cousins..... 13 50
Good Templars..... 13 56
Guild 13 534
Hakluyt Society..... 13 629
Industrial Workers of The World, or I. W. W. 15 110
Invincibles 15 287
Kit-Cat Club..... 16 463
Land League..... 15 331
League to Enforce Peace 27 538
Loyal Temperance Legion 17 706
Mafia 18 112
25 202
Mid-European Union... 19 38
Molly Maguires 19 329
Municipal League, National 19 586
National Spiritualists' Association 25 423
Nihilists 24 517
Order of The Sons of Temperance, The..... 26 405
Peace Society..... 21 441
Postmasters, National Association of..... 22 437
Post-Office Clerks, United National Association of..... 22 423
Press Association of London 22 555
Press Associations..... 22 555
Primrose League..... 22 579
Prison Association, National 22 602
Secret societies..... 24 516
Suffrage organizations.. 29 465
Tammany societies..... 24 517
Tammany Society..... 26 235
26 236
26 237
Temperance, Sons of... 26 405
Tenant Right League.. 15 331
Thags 26 599
Thugs 26 599
Toxophilites 2 167
Typothetæ 27 244
Union League Club, The 27 287
University Club, The... 27 578
Woman's Christian Temperance Union..... 29 456
Women's clubs..... 29 465
Women's Peace Party.. 27 537
Zionist societies..... 16 108

SOCIOLOGY

General

	Vol.	Page
Affiliation	1	206
Appalachian America	2	71
Averages in statistics	25	535
Births, registration of	4	11
Census	6	194
Census Bureau	25	537
Charting statistical data	25	534
Collection of data	25	533
Democracy in the United States	8	647
Dispersion	25	535
Doctrine of a social contract	8	643
Evils, existing	25	187
Graphic method	13	146
Group psychology	25	215
Index number	14	752
Index numbers in statistics	25	535
Justice	16	263
Law, natural	17	140
Methodology	25	215
Musée social	25	188
Progress	22	634
Ratio in statistics	25	535
Rights of man	15	264
Science of averages	25	531
Science of society	14	252
Scientific sociology, rise of	25	177
Social analysis	25	215
Social conditions	2	613
Social diagnosis	25	216
Social engineering	25	216
Social pyramid	14	204
Social science	25	187
Social Science Association, American	25	187
Social status of women in Italy	15	497
Social survey	25	215
Sociology	25	207
definition	25	207
description	25	213
history of	25	208
reaction of, upon historiography	14	252
Statistical charts	25	534
Statistical data, tabulation of	25	534
Scope of statistical method	25	529
Statistical method, application of, The	25	529
Statistical tables	25	530
Statistical table, complex	25	530
Statistical schedules	25	534
Statistics	25	529
	25	533
beginnings of	25	536

Social Evolution, Examples of

	Vol.	Page
American people, beginnings of	19	758
Asylum	2	484
Avenger of blood	2	673
Bandit	3	140

Social Evolution, etc.— cont'd

	Vol.	Page
Battle, law of	3	345
trial by	3	345
wager of	3	345
Ben Hur, The tribe of	3	498
Betrothal	3	594
Betrothment	3	594
Black Art	18	115
Black Jack	4	36
Blood feud	4	110
Black laws	20	49
Blood-money	4	110
Blowgun	4	119
Bolar	4	371
Bolsheviki	18	456
	22	246
	25	318
Bonders	4	210
Boyar	4	371
Bourgeoisie	4	350
Bride and bridegroom	4	494
Brook Farm	4	90
Cannibalism	5	502
motives to	5	503
Child marriage	18	312
Churches, approximate membership	6	607
	6	608
	22	689
Common field	7	409
Commensalism	7	365
	21	288
Condition of the slave	27	395
Democracy	8	639
and social efficiency	8	654
as a form of social control	8	652
as a form of social life	8	654
Duma	4	371
	9	394
Egyptian religion and sociology	10	19
Entail	10	398
Endogamy	10	323
	18	313
Eunuch	10	575
Exogamy	10	641
	18	313
Family, history of	11	2
life of the ancient Germans	11	4
life of the ancient Hebrews	11	4
Feringee	11	125
Feringhee	11	125
First anti-slavery society in America	4	295
Fork	11	489
Fujiwara clan	15	630
Free socage	25	158
Freedom of choice in marriage	18	312
Greco-Roman family life	11	4
Half-caste	13	636
Illegitimate births	14	680
Knazia	4	371
Levirate marriage	17	329

Social Evolution, etc.— cont'd

	Vol.	Page
Magic	18	115
Manumission of slaves	27	395
Marriage among the European peoples	18	313
Marriage, history of	18	311
morganatic	19	455
origin and social function of	18	311
Maternal family	11	3
Mensheviki	22	246
Monogamy	18	312
Munal ownership	22	661
Negro in America, The	20	47
Negro suffrage	27	467
Nomads	20	393
Odeon	20	582
Ohwachira	25	51
Patriarchal system	21	401
Penology	21	540
Phylbe	22	24
Piracy	22	114
Pirate	22	114
Polyandry	18	312
	22	326
Polygamy	18	311
	22	330
Polygyny	18	311
Primitive Aryan collectivism	22	661
Primitive form of human family life	11	2
Property, The institution of	22	660
laws of	22	660
Qu'est-ce que la Propriété?	22	696
Romulus Augustulus	14	272
Seizures of Power	22	246
Serpent charming	24	598
Settlement idea, development of the	25	191
Sexual relations, Jewish	16	126
Six Nations of the Iroquois	25	51
Slavery	3	24
	25	88
	27	391
Socage	25	158
Soccage	25	158
villein	25	158
Society	14	273
development and constitution of	15	629
Superstitions, Diamond	9	62
Tenements	3	563
Third Estate	4	350
Totem	26	715
Triclinium	27	55
True yeomanry of the South	2	72
Tyrant	27	244
Vendetta	27	726
Wedding anniversaries	29	153
Wife capture	18	312
Wife purchase	18	312
Witchcraft	29	430

Life of society in general: customs, costumes, treatment of dead, population, holidays, pastimes, etiquette, etc.

	Vol.	Page
Administration of personnel relations	15	92
Age statistics	28	147
Algonquin Indians, harvest festivals	11	153
All Souls festivals	13	392
Altar-tombs	26	682
Anglomania	1	688
Anthesteria	9	185
Apology	2	67
Arabian Nights, The	2	121
	23	586
Arbor Day	2	145
Arcera	5	667
Arnold Arboretum	21	336
Arthur's knights	13	108
Assistance publique	21	313
Avadhuta	2	671
Auction bridge	4	495
Auto-car	5	665
Auto-truck	5	665
Autograph	2	642
Asmari	2	689
Aztec festivals	11	154
Baal's fire	3	2
	18	461
Bachelor	3	16
Baldric	3	75
Bandana	3	138
Bandeaux d'amour	11	51
Banshee	3	215
Barouche	5	665
Bastard	3	320
Basternia	5	668
Battersea Park	21	335
Battery Park (Charleston, S. C.)	21	337
Bayaderes	3	360
Bay Ridge Park (Brooklyn)	21	336
Beads	3	375
Beefsteak Club	7	136
Beghards	3	444
Beguinages	3	445
Beltein	18	461
Belle Isle (Detroit)	21	337
Belted plaid	22	144
Benevolent orders	3	509
Benna	5	668
Big Brother Movement, The	3	693
Bird Day	3	727
Berlin	5	665
Births	28	148
Birthright	4	11
Black Art	4	32
Blackguard	4	41
Blacklegs	4	42
Black Maria	4	37
Blood Brotherhood	4	110
Bloomer costume	4	115
Blue Hills Reservation (Boston)	21	336
Blue Monday	4	126
Bodkin	4	145
Bog-trotter	4	153
Bois de Boulogne	4	174
	21	335
Bois de Vincennes	4	174
	21	335
Bolas	4	179
Bolero	4	179
Bolo	4	193
Boomerang	4	216
Borrowing days	4	284
Boss	4	290

Life of Society in general, etc.— cont'd	Vol.	Page
Boston	4	299
Bothie	4	313
Bowery, The	4	364
Bowling	4	365
Boys' clubs	4	377
Boycott	4	372
Boxing	4	369
Braccæ	8	45
Bracelet	4	380
Brachium	4	380
Brahmans	6	1
Breeches	4	459
Breacan	22	144
Bridge	4	495
whist	4	495
Bridle	4	533
Breet	5	665
Britzka	4	566
Britzska	5	665
Broadway	4	569
Brooch	4	589
Bronx Park (N. Y.)	21	336
Brook Farm	4	589
Brougham	4	600
	5	665
	5	668
Buckle	4	668
Buckboard	4	665
	5	665
Buffet	4	696
Buggy	4	699
	5	666
Bulbulchasm	22	146
Bungalow	5	24
Burial	5	43
Burial in churches	26	682
Burial, Jewish	16	125
Burying places	5	71
Bushrangers	5	74
Buttes-Chaumont Gardens	21	335
Cab	5	666
Cabriolet	5	666
Cairngorm	5	148
	22	144
Calash	5	666
Calasiris	8	45
Calêche	5	666
Canadian calash	5	676
Canonicals	5	523
Cap	5	541
Capital punishment	5	560
Capitalist	14	288
Carryall	5	666
Car	5	666
Carafe	5	583
Caravansari	5	585
Carpentum	5	668
Carriage	5	665
	5	667
	5	668
Carriages on wheels	5	668
Carriages without wheels	5	668
Carroll Park (Baltimore)	3	117
	21	336
Carruca	5	668
Cart	5	666
	5	676
Carts	5	667
Cashmere shawls	21	380
Caste	6	1
Castes	14	195
Catacombs, The	6	30
	23	660
Catafalque	6	36
Causes of death	8	540
	28	150
Celtic heroes	14	139
Cemetery	6	190
Centenary	6	199

Life of Society in general, etc.— cont'd	Vol.	Page
Central Park, New York	6	209
	21	333
	21	336
Centre of population	6	214
Chaise	5	666
	5	669
Champion	6	271
Champs Elysées	6	276
	21	335
Chaperon	6	296
Chariots	5	667
Chariot	5	666
Charities	6	306
Charities, National Conference of Catholic	6	73
Charities and Correction, The Nathional Conference of	6	309
Charities, Jewish	16	127
Cherokee festivals	11	153
Chicane	4	495
Chibouk	6	437
Chibouque	6	437
Chibuk	6	437
Children, defective	6	470
delinquent	6	472
dependent	6	473
neglected	6	483
of naturalized citizens	19	773
Children's playgrounds	6	495
Chinese immigration	6	554
Chiton	8	45
Chlamys	8	45
Cinerary urns	6	696
City Festival	13	392
Clan	7	31
names	26	88
Clients	7	100
Club	7	136
Cluricaune	17	310
Coach	15	666
Cockade	7	185
Coif	7	218
Coffin	7	213
Cohabitation	7	215
Coloni	14	273
Colony	7	300
Color-tattooing	26	284
Common pin, The	22	92
Comb	7	348
Concubinage	7	475
Common (Boston)	4	298
	21	336
Consanguinity	7	537
Consort	7	550
Conscience money	7	587
Corvée	8	29
Coscinomancy, or Coskinomancy	8	31
Cotillon	8	57
Coville agency, Washington	24	188
Commissionaire	7	405
Concord coach	5	669
Conditions for citizenship	6	708
	19	772
Corona	7	717
Corpse	8	16
Corso	8	24
Corroboree	8	20
Corymbus	8	31
Costume	8	45
Country, or contra-dance	8	106
Coupé	5	666
Coursing	8	114
Courtesy title	8	125
Creek Indians' festivals	11	153
Cremation of the dead	8	177
Crippled children	6	472

Life of Society in general, etc.— cont'd

	Vol.	Page
Curfew, also curfeu	8	306
Custom of scattering flowers	22	199
Curricle	5	666
Dactyliomancy	8	389
Dakotas festivals	11	153
Dame	8	430
Dancing	8	447
Dawn-to-dark working day	14	289
Dead, disposal of the	8	525
Death-song	8	541
Deaths	28	149
Début	8	552
Declaration of intention to become a citizen	19	772
Decuriones	14	273
Destructive tenement conditions	14	288
Derby Day	8	710
Detroit population	9	31
Diadem	9	55
Dietrich Von Bern	9	105
Dionysia	9	135
Diploidion	8	45
Disease	9	157
	28	150
Divorce	9	206
	28	149
Dog-cart	5	666
	5	676
Doll	9	235
Domesday book	25	536
Domestic plate	25	17
Don	9	249
Doublet	9	276
Dowager	9	286
Drag	5	666
Dray	5	668
Drosky	5	666
Druid Hill (Baltimore)	21	336
Duel	6	254
and dueling	9	384
	9	385
Dump cart	5	676
Dutchman, The Flying	9	438
Dyker Island Park (Brooklyn)	21	336
Ear-rings	9	484
Effigy	9	720
Egyptian festivals	11	155
Elizabeth Park (Bridgeport, Conn.)	21	337
Embalming	10	273
Emergency Fleet Corporation	15	86
Emigrant wagon	5	669
Emigration	10	293
Employment bureaus	27	279
England in the 19th Century	14	290
Endromis	10	324
Epileptic children	6	472
Etiquette	10	575
Evening recreation centres for New York	23	274
Fairmount Park (Phila.)	21	336
Family	7	24
Familistére	11	2
Fandango	11	9
Fans	11	11
punkah	11	11
Farandola	11	18
Farandole	11	18
Fasching	5	641
Fashion	11	50
Fatigue, unnatural	15	84
Feasts, illness, Apache Indians	11	154
Feile beg	22	144
Feminism	11	107

Life of Society in general, etc.— cont'd

	Vol.	Page
Festival	11	153
Festivals of the American Indians	11	153
Festival of Parilia	21	197
Fête nationale	11	157
Feu de Joie	11	159
Fez	11	164
Fiacre	5	666
Fillet	11	210
Fillibeg	22	144
Fin de Siecle	11	212
Fire boat	11	233
Fire causes, study of	11	247
Fire-making	11	242
Fire prevention	11	243
Fire Prevention Day	11	248
Fire Prevention League	11	243
Fire protection	11	244
Fire Protection Association; National	11	245
Fires, prevention of dishonest	11	247
Flag	11	308
living	11	309
Float	5	667
Flowers, symbolism of	11	396
Flying Dutchman	11	407
Fraternal societies	15	177
in America	12	23
Fraternity	8	653
Fraternities	12	24
Free society	8	652
Folding fan	11	11
Folk-lore	11	416
Folk-music	11	417
Folk-tales of the American Indians	11	418
Forest of Fontainebleau	11	426
	21	338
Forest Park (Brooklyn)	21	336
Forms of address	11	492
Fort Greene Park (Brooklyn)	21	336
Foundling	11	542
Fresh-air work	12	91
Frock	8	47
Funeral rites	12	163
Gad-about	5	676
Garden cities	12	282
Garfield Park (Washington)	21	336
	28	787
Gems	12	401
Ghetto	12	633
Gig	5	666
	5	676
Ghost dance	12	634
Gold stick	13	24
Gordon Park (Cleveland)	21	337
Gramercy Park	23	756
Grand devil dance	11	154
Grand Park (Atlanta, Pa.)	21	337
Grand Slam	4	495
Grange	25	159
Great canestoga wagon	5	669
Greek Church, funeral rites	12	164
Greek festivals	11	154
	13	392
Greenwood Cemetery	13	441
Gypsy folklore	13	595
Hack	5	666
Hackney	5	668
coach	5	666
	5	668
Hair-dressing	13	622
Hall of Song	13	393
Half blood	13	636
Half-breeds	13	636
Hansom	5	666

Life of Society in general, etc.— cont'd

	Vol.	Page
Harmless fatigue	15	84
Hansom cab	5	666
	5	668
Head-dress	4	220
Hedge	14	63
Heimin	15	694
Hempstead Heath	21	335
Heroes	14	138
Himation	6	45
Hindu funeral rites	12	163
Hobson's choice	14	306
Holiday	14	316
Holy days and feasts	13	393
Hopi festivals	11	153
Hostelry	14	436
Hotel	14	436
Hotel des Invalides	21	313
Hotel Dieu	21	313
House-boat	14	445
Housing standards	15	86
Hue and cry	14	473
Hugh of Lincoln, Saint	14	477
Human engineering	15	90
	15	92
Hyde Park	14	538
	21	335
Immigration	14	713
	27	463
to the United States	27	464
Incas festivals	11	154
Incubus	14	748
Indian Day	15	28
Indian music	15	29
Institutionalism	6	474
Institutional Church	25	159
Industrialism	15	110
	27	278
Industrial administration	15	90
Industrial fatigue	15	84
Industrial housing in the United States	15	85
Industrial insurance, welfare work	15	185
Industrial organization	15	90
Industrial peace	15	96
Rockefeller plan of	15	94
Industrial workers, education and training of	15	105
Industries, welfare work in	15	110
International Workmen's Association	15	266
Inn	15	141
Innkeeper	15	141
Insane asylums, cottage system	15	154
Insane classified with reference to psychoses	15	173
Insane in foreign countries	15	151
Insane, institutional care of the	15	148
Insanity, causes of	15	153
Insanity in the several States	15	151
sex of	15	152
statistics of	15	150
Irish jaunting car	5	668
Iroquois Feast of the Dead	11	154
Isthmia	13	393
Italian Feminine Industries, Association of	15	497
Jack and the Beanstalk	15	572
Jack and Jill	15	572
Jackson Park (Chicago)	21	336
Jack the Giant Killer	15	572
Jack Horner	15	572
Jaunting car	5	666
Jewish festivals	11	155

Life of Society in general, etc.— cont'd	Vol.	Page
Jinrikisha	5	668
	16	147
John's, eve of Saint	16	166
Jousts	26	721
Jukes, The	16	241
Katow	16	535
Keney Park (Hartford, Conn.)	21	337
Kensington Gardens	16	361
	21	335
Kermess	16	379
Kermis	16	379
Kilt	22	144
Kirmess	16	379
Kit-Cat Club	7	136
	16	463
Knight	16	483
Kshatriyas	6	1
Kwazoku	15	634
Kwozoku	15	633
Land League	4	372
	16	698
Labor, adjusting hours of	15	84
Labor legislation	27	462
Lacerna	8	45
La Fête-Dieu	18	462
Landau	5	666
	5	668
Landaulet	5	666
Largess or Largesse	16	748
Lazzaroni	17	161
Lectica	5	668
Legislation regulating conditions of labor for women	29	464
Lenæa	9	135
Leprecaun	17	310
Leprechaun	17	310
Liberty cap	22	23
Life tables	28	151
Lighter farm wagon	5	669
Lincoln Park (Chicago)	21	336
(Washington)	21	336
Little John	17	521
Little Slam	4	495
Lodgings	17	590
Lodging-houses	17	590
Logan Park (Washington)	21	336
Lokman	17	614
London Clay Club	4	363
Lord-Mayor's Day	17	657
Lorelei	17	660
Lupercalia	5	641
	17	748
Luprachaun	17	310
Luxemburg Gardens	21	335
Lyceum	13	417
	17	769
Maharajah	18	185
Mandan festival, The	11	153
Mardi Gras	5	641
	18	276
Marine Park (Boston)	21	336
Marriage	18	311
Marriages	29	148
Matachine	18	421
Matronalia	18	438
Mascots and hoodoos	18	376
Matachin	18	421
Matador	18	422
May Day	18	461
Maypole, The	18	462
Maypole dances	9	507
	18	462
Mazurka	18	472
Mendicancy	18	626
Meriden Hill Park (Washington)	21	336

Life of Society in general, etc.— cont'd	Vol.	Page
Middlesex Falls Reservation (Boston)	21	336
Military Park (Newark, N. J.)	21	336
Millenary	19	116
Mir	19	216
	28	90
Misericorde	19	226
Misericordia	19	226
Mizpah ring	19	276
Mocassin	19	281
Moccasin	19	281
Moccassin	19	281
Moccason	19	281
Modern buggy	5	668
Mohammedans festivals	11	155
Mohammedan funeral rites	12	163
Moki festivals	11	153
Moralities	19	438
Morals	7	26
Montsouris Park	21	335
Morgue	19	457
Moss-backs	14	569
Mortality	19	484
rate	26	732
Mother's Day	19	512
Mother Goose's Melodies	19	512
Motion studies	15	85
Mourning	19	533
Mouseion	13	393
Mummy	19	561
Municipal art societies	19	573
Municipal lodging houses	17	590
	19	581
Musical festivals	19	645
Nairs	19	684
Naturalization	19	771
by incorporation	19	773
in other countries	19	773
laws	19	772
of Chinamen	19	773
Nature of settlement activities	25	190
Necropolis	20	37
Needle	20	39
Nemea	13	393
New Year's Day	20	187
New York Authors' Club	4	374
New York Children's Aid Society	6	474
Night work, bad effects of	15	84
Nobility	20	384
Nothi	3	320
Old Southern hound	26	221
Olympiad	13	393
	20	673
Omen	20	682
Omnibus	5	666
	20	683
Orphanages	6	72
Overseers of the poor	21	59
Out-caste	6	2
Padishah	21	93
	24	640
Palanquins	5	668
	21	135
Palla	8	45
Panathenæa	21	239
Parasol	21	292
Paris markets and abattoirs	21	318
Paris restaurants, hotels and street life	27	317
Parks, public	21	333
Park of the Tuileries	21	335
Pauperism	21	423
	21	424
	21	425

Life of Society in general, etc.— cont'd	Vol.	Page
cures of	21	426
modern	21	423
Patches	21	379
Patronymic	21	406
Patterson Park (Baltimore)	21	336
Pavanet	21	427
Pawn	22	244
Peeping Tom	21	469
Pelham Bay Park (N. Y.)	21	336
Peonage	21	558
Peons	21	558
People's institutes	21	559
People's Palace	21	559
Peplos	8	45
Persian festivals	11	155
Personal cleanliness	14	592
Personal hygiene	14	591
Petticoat breeches	8	47
Phaeton	5	666
Philanthropy	21	736
Phrygian cap	22	23
Phrygian festivals	11	155
Piccadilly	22	63
Picketing	22	67
Pin	22	91
Pin-money	22	92
Pina cloth	22	92
Polka	22	318
Polonaise	22	325
Poncho	22	348
Posting	22	437
Population	22	364
	24	432
	24	587
	28	147
causes of growth	22	365
of ancient Rome	23	663
growth of	22	364
growth of, in 19th century	22	365
Post-chaise	5	668
Potlatch	22	448
	24	188
Potter's field	22	453
Potomac Park (Washington)	21	336
Poufs de sentiment	11	51
Poverty and misfortune, municipal protection against	19	581
Poverty, modern	14	294
Prairie-schooner	5	669
	22	508
Profit-sharing	17	210
	22	633
Proletariat	14	288
	22	650
Proper names	26	88
Prospect Park (Brooklyn)	21	336
Proverb	22	704
Protection abroad to naturalized citizens	19	773
Public Garden (Boston)	21	336
Public hygiene	14	591
Puchapat	21	380
Pueblo tribes, population	22	790
Pugaree	22	792
Pugrey	22	792
Punkah	23	23
Pupils, retardation of	23	428
Puyallup Agency, Washington	24	188
Pythia	13	393
Recreation centres	23	273
Recreation in England	23	274
Recreation in Europe	23	274
Recreation in France	23	275

Life of Society in general, etc.— cont'd

	Vol.	Page
Recreation in the United States	23	273
Redowa	23	289
Reel	23	296
Relief agencies	27	279
Rest periods	15	83
Rheda	5	668
Rheda meritoria	5	668
Rings	23	529
Riverside Drive (N. Y.)	21	336
Robin Hood ballads, The	23	576
Roman Catholic Church funeral rites	12	163
Roman festivals	11	154
Roman monuments	26	681
Rockaway	5	666
Rochet	23	593
Rose festival	23	694
Round Robin	23	721
Russian population	24	1
Sabots	24	85
Sacque	8	47
Sagum	8	45
Saint Nicholas Club	7	137
Saint Brandan's Isle	24	124
Sahib	24	111
Saint James Park	21	335
Salmon dance	24	195
Sandal	24	252
Sarcophagus	24	297
	26	682
Saturday	24	313
Saturnalia	5	641
	24	316
Scar-tattooing	26	283
Sceptre	24	360
Scientific management	15	84
	15	90
Seaside Park (Bridgeport, Conn.)	21	337
Seawan	28	252
Sedan-chair	24	522
Sedrat	24	525
Shah	24	640
Shawl	24	666
Shay	5	669
Shells for ornamental purposes	24	685
Sheik	24	679
Shepherd's Plaid	22	146
Sherif	24	703
Shillelagh	24	710
Shizoku	15	634
Shroud	24	759
Silver Lake Park (Brooklyn)	21	336
Sinbad the Sailor	23	586
Slacking in industry	15	84
Skimmerton	25	70
Sleigh	25	97
Sleeping Beauty, The	25	96
Sir	25	45
Snake-stone	25	144
Sociable	5	666
Social and university settlements	25	189
Social centres	25	158
Social Reform Programs and Movements	25	166
Social Service to the immigrant	25	190
Social settlements	25	159
Soldiers may become citizens	19	772
Sorosis	25	266
Sortes	25	267
Soutaine	25	273
Spirit of laws, The	25	419
Sporran	25	434
Spur	25	460
Spurii	3	320

Life of Society in general, etc.— cont'd

	Vol.	Page
Squidding	4	130
Stage	5	666
coach	5	667
	5	669
Stately chariot	5	669
State coach	5	668
Steward	25	642
Stigma	25	646
Stiletto	25	648
Still-births	28	148
Stilts	25	651
Stirrup	25	655
Stola	8	45
	25	670
Stone of destiny	26	265
Street	25	724
Strophium	8	45
Sudras	6	1
Suicide	25	806
Sulky	5	666
	5	676
Sun-dance	26	26
Superstition, popular	26	41
Superstitions of the world	26	41
Surrey	5	666
Suttee	12	163
	26	103
Sword-dance	26	154
Tabard	26	196
Taboo	26	199
Taboo associations	26	200
Taikun	27	231
Talbot	26	221
Tally-ho	5	666
	5	668
Tannhauser	26	245
Tara	26	265
Tarantella	26	265
Tarpeian rock	26	273
Tartan	26	275
Tattooing	26	283
T-cart	5	666
Thanksgiving Day	26	488
Thesmophoria	26	548
Third sex	11	111
Thompson River Indians, festivals of	11	153
Titles	26	651
Titles of nobility	19	772
Tramps	21	426
Tocsin	26	666
Toga	8	45
Toltec festivals	11	154
Tomahawk	26	679
Tom Thumb	25	718
Tomb	26	681
Torque	8	45
	26	707
Totem pole	26	716
Totemism	26	89
Tournament	26	720
Tower of Silence	26	723
Trap	5	666
Tunic	27	145
Turban	27	169
shell	27	169
Tycoon	27	231
Umbra	27	267
Umbrella	27	267
Unemployment	27	277
causes of	27	278
insurance	27	280
relief and remedy of	27	279
problem of	27	278
statistics of	27	278
United States Housing Corporation	15	86
Unit social organization	27	292

Life of Society in general, etc.— cont'd

	Vol.	Page
Unity system of organization	27	563
Urn burial	27	597
Urns, cinerary vases	27	694
Vagrancy	27	640
Vaisyas	6	1
Vampire	27	662
Van	6	666
Van Cortlandt Park (N. Y.)	21	336
Varna	14	194
Variegated silk lungis	22	146
Vases	27	693
Vauxhall Gardens	27	706
Vehiculæ meritoriæ	5	668
Velocipede	27	724
Victoria	5	666
Park	21	335
Village communities	28	90
Village	28	87
Villa	28	86
Villeins	28	91
Villenage	28	92
Vinaigrette	28	93
Vision-hunting	26	26
Visiting card	28	141
Vital statistics	28	146
Voodoo	28	193
Voudoo	28	193
Wagon	5	666
Wagonette	5	666
Walking fans	11	11
Waltz	28	252
Walking stick	28	232
Wake	28	216
War Democrats	14	509
Washington (D. C.), population	9	194
Washington Park (Albany, N. Y.)	21	337
(Chicago)	21	336
Wedding anniversaries	29	153
Widow	29	296
Wig	29	297
Wigwam	29	300
Wild hunt	29	307
Wissahickon driveway (Philadelphia)	21	336
Woman	13	417
Women in professions	29	460
Women's rights	29	470
Woman suffrage	27	224
	29	446
Women	5	81
International Council of	1	38
World population	22	364
Workmen's Compensation Acts	29	520
	25	511
Yataghan	29	616
Yeoman	29	634
Young Men's Christian Association	29	653
Young Women's Christian Association	29	664

Social Control (Pensions, Penology, etc.)

	Vol.	Page
Access	1	69
Alexian Brothers	6	72
Amana Community	7	418
American Anti-Slavery Society	4	9
American Union of Associationists	11	550
Anarchism	1	623
Auburn State Prison	22	607
Auburn system	22	607
Austrian Catholic social movement	6	74
Axinomancy	2	682

Social Control — cont'd	Vol.	Page
Babœuvism	3	5
Bagnes	3	43
Bastinado	3	324
Beheading	5	563
Big Sisters, The	3	694
Births, registration of	23	323
Blackwell's Island	4	48
Blue Cross Fund	4	124
Blue-ribbon army	4	127
Bluegowns	4	130
Board	4	136
Boy Scouts	4	370
of America	4	370
Branding	4	412
Brank	4	415
Bridge of Sighs	4	525
Brook Farm	7	418
	11	550
	14	10
Bureau of Refugees, Freedmen and Abandoned Lands	20	49
Burglary	5	40
Burning alive	5	563
Burnoose	5	58
Camorra	5	268
Campo Santo	5	285
Cang	5	500
Cangue	5	500
Capital punishment	5	560
Carlton Club	7	137
Carnegie Corporation of New York	5	634
Carnegie Dunfermline Trust	5	634
Carnegie Endowment for International Peace	5	635
	15	264
Carnegie Hero Fund	5	634
	5	637
Castrum Doloris	6	22
Catholic Church, social service in the	6	71
Cell	6	173
Charitable trusts	6	306
Charterhouse	6	340
Citizenship, double	9	273
City Beautiful	25	189
City planning	6	718
Civic centre	6	720
Civic embellishment	6	721
Clinton State Prison	7	116
Club de Boston, Le	7	137
Club Politique, Le	7	137
Coals to Newcastle	7	165
Commercial Revolution and the resulting social reform movements	25	166
Community Christmas tree movement	7	419
Convict labor	7	614
Cottage plan for delinquent children	6	472
Deaths, registration of	23	323
Dentistry, public	8	694
Detention homes	9	17
Devonshire Club	9	43
Disciples of Christ	9	152
Divorce census, United States	9	206
foreign countries	9	207
Divorce, geographical distribution	9	206
husbands granted	9	206
wives granted	9	206
Drug habitués	9	343
Drunkenness	9	354
	13	417
Eastern Pennsylvania Penitentiary	22	608
Elberfeld system	10	55

Social Control — contd	Vol.	Page
Electrocution	5	563
Elizabethan Associations of Germany	6	73
Elmira Reformatory	10	260
	22	609
England, Catholic social reform in	6	75
English "Borstal" system	22	610
Farmers' institutes	11	39
Finger-print impressions	14	151
Finger-print classification, Henry system of	11	222
Finger-prints	11	222
First aid	11	258
Fleet Prison	11	342
Flogging	11	360
Florence Crittenton Mission	11	365
Franciscans	6	72
Fratres Pontifices	6	72
Freedmen's Bureau	27	431
Green Cross nurses	13	424
Hanging	5	563
Harmony Society	7	418
	13	717
Haymarket tragedy	1	624
	14	20
Highbinders	14	183
Hoboken Turtle Club	7	137
Holland, Catholic social reform in	6	75
Holy Spirit, Brotherhood of the	6	72
Home Defense League	13	424
Hospitalers	6	72
Hospitals	14	427
Houses of correction	22	605
Housing reform	26	414
Humane Association, American	14	487
Humane Society, Royal	14	487
Humanitarian Cult, The	14	488
Hull House	1	130
	25	190
Humbert swindle, The	14	489
Hygiene	14	590
Insurance, fraternal	15	177
scientific life	25	536
life, statistics	15	192
Congress, World's	15	198
Icarian Community	7	418
Icarians	14	620
Institute of Actuaries of Great Britain	15	196
International Council	15	265
International Peace movement, The	15	263
International unions for the protection of property	15	266
Italy, Catholic social reform in	6	75
Jacky Jacky	5	74
John Crerar Library, The	16	163
Katakinchi	16	315
Kia	5	500
Knights of Saint John	6	72
Krupp foundries, social work at	16	548
League of Universal Brotherhood	5	65
Lexow Committee	16	27
Manchester doctrine	14	289
Manchester National Society for Women's Suffrage	11	109
Manhattan Club	7	137
Marriages, registration of	23	323

Social Control — cont'd	Vol.	Page
Marriage, restraint of	23	421
Montes pietatis	6	72
Mont-De-Piété	19	379
Monts de Piété	11	195
Montyon prizes	19	420
Moonshiner	19	427
Moving pictures, censorship of	19	539
Murder	5	562
National Freedman's Relief Association	12	61
Newgate Prison	20	273
New Harmony	7	418
Nihilism	20	342
North American Phalanx	20	411
Ohio State Reform School	6	472
Oneida Community	7	418
	20	688
Pan-American Exposition	21	224
Peace Fund	5	634
Peace Temple at The Hague	5	634
Penitentiary	21	511
Pennsylvania prison system	22	607
Penology	21	540
Pension Act, Old Age, British	4	251
Pension agencies	21	548
Pensions	21	545
army nurses	21	548
civil service	21	546
Civil War	21	547
clergymen's	21	549
collegiate	21	549
Indian wars	21	547
industrial	21	549
invalid	21	546
maternity	21	546
Mexican War	21	547
military	21	547
municipal	21	547
old age	21	545
Philippine Insurrection	21	548
Spanish War	21	548
teachers'	21	549
War of 1812	21	547
widows'	21	546
Perambulators	3	387
Permanent Court of Arbitration	15	265
Pillory	22	87
Pledge	22	244
Poor whites	27	395
Premium plan	22	531
Prisons	22	605
English	22	606
Prison system, The Irish	22	609
modern	22	610
Prohibition	9	130
Queen Anne's bounty	11	262
Queen's Daughters Society	2	73
Rauhes Haus	23	231
Reconstruction	25	185
Reform Club	7	137
Riot	23	534
Roycrofters, The	23	738
Russell Sage Foundation	23	788
Saint Lazarus, Order of	6	72
Schools for blind and dumb	15	669
Schools, reformatory	23	304
Secret Service, statistics	24	516
Settlement work	25	190
Settlements, administration of	25	190

Social Control — cont'd	Vol.	Page
Service, Christian social	11	560
Shooting	5	563
Silent prison system	22	607
Singletax, The	25	35
Sister Dora	21	410
Sisters of the Good Shepherd	6	73
Slater Fund	25	84
Slavery, system of	27	396
Slaves, insurrection of	27	395
Soap bubbles	25	157
Social-Democratic Party	22	246
Social reform	6	73
in France	6	74
movement in Switzerland	6	75
movements	25	166
programs	25	166
Social Science, National Association for the Promotion of, The (British)	25	187
Social service	25	187
American Institute	25	188
Commission	6	76
Social insurance	16	599
Society for the Promotion of Industry Among the Poor	13	107
Society for Promotion of Useful Giving	25	206
Society of Saint Vincent de Paul	6	73
Sons of Daniel Boone	4	370
Spain, Catholic social reform in	6	75
Statistics, protection	22	675
Strangling	5	563
Street cleaning	25	725
Stundists	25	754
Succession powders	25	782
Suffrage	25	515
	27	466
Surnames	26	88
Temperance	26	403
Tenement-house reform	26	413
Tombs, The	26	682
Topolobampo Bay, Mexico	26	701
Toynbee Hall	26	737
Trinitarians	6	72
Truant school	27	102
Union League Club of New York	7	137
United States, Catholic social reform in	6	76
Vaccination statistics	27	632
Vegetarianism	27	719
Verendyre National Monument	28	14
Vice, regulation of	28	58
Vigilance committee	28	84
Volunteers of America	4	251
	4	253
Walnut Street Prison in Philadelphia	22	607
Washington State, Charitable Reformatory and Penal Institutions of	28	784
War Gardens	28	677
Welfare work of University Extension	26	46
White House Conference	6	475
Woman's Christian Temperance Union	29	456
Woodcraft Indians	4	370
Workhouse	22	605
	29	519
Young Men's Christian Association	29	653

Economic Sociology	Vol.	Page
Æsthetic revolt against materialism and misery	25	174
Anarchism	1	623
Anarchism, early philosophical	25	176
Boots and shoes export trade	24	741
Bourgeois attempts to absorb the radical proletarian movements	25	184
Brandy, production of	9	185
Catholicism, Social	25	173
Cigarettes, production of	26	664
Cigars, production of	26	664
Communism	7	417
Community Church	25	159
Contrat social	7	600
Co-operation	7	639
Diamond mines, yields of	9	64
Diamond statistics	9	63
Distilleries, materials used	9	185
registered	9	186
Distribution, World's Grand Fleet	24	734
Druggists' preparations	9	349
Drug statistics	9	348
Dry goods trade census	9	360
Economic rent, Ricardo's law of	25	36
Electric power census	22	483
Electric railway statistics	10	156
Factory production, modern system of	5	670
Fourierism	7	417
	11	549
Gold production	13	11
	13	19
	13	20
	13	24
of the world by single years	13	24
Grain census, farm products	13	109
Grain production	13	110
Home economics	14	333
Homestead system	27	504
Industrial revolution and social problems	25	168
Knit goods statistics	26	475
Laissez Faire doctrine	14	289
Manufactures, totals of	26	475
Merchant tonnage of the world	24	735
Overproduction	27	278
Patent medicines, manufacture of	9	350
Physiocratic school	22	42
Port tonnage	22	386
Post-office statistics	22	424
Production	22	632
Publishing statistics	22	784
Raw silk, consumption of	26	470
Replacements, tonnage of the world	24	735
Rice, statistical table	23	486
Rye statistics	24	73
Salt, consumption of	24	199
quantity of	24	201
Saw-mill production	24	334
School savings	24	392
Sealing	24	480
hair seal industry, statistics of	24	482
Newfoundland	24	481
Seals taken, 1916	24	482

Economic Sociology — cont'd	Vol.	Page
Seal products, exports of	24	482
value of	24	482
Sewing machines, production of	24	629
Shad-hatching	24	637
Share system	8	64
Shell money	28	252
Shipbuilding by colonies	24	725
Shipping of principal nations, 1914	24	734
1917	24	734
Shoe productions	24	740
Snuff, production of	26	664
Socialists, Christian	25	173
Socialism	25	191
	25	195
development of Marxian or "Scientific"	25	178
early Christian	25	173
principles of	25	194
revolutionary	25	175
Saint Simonian	24	169
transitional	25	175
Utopian	25	174
Statistics	25	533
Statistics, averages in	25	535
index numbers in	25	535
ratio in	25	535
Tanning materials, consumption of	26	247
Telephone stations, number of	26	382
Tin plate, manufacture of	26	640
Tin production	26	639
Tobacco establishments	26	664
Tobacco, imports	26	663
international trade	26	664
leaf, used in the domestic manufacture	26	664
production of	26	664
production of, in the United States, by States	26	663
production of, by types	26	663
shipments	26	663
world's production of	26	663
Tonnage lost during 1917	24	734
Toy-making	26	738
Tulalip Agency, Washington	24	188
Wampum	28	252
War losses, tonnage of the world	24	735
World's shipping, 1914	24	734
See also **Commerce and Industry.**		

Philology, Slang and Nicknames

	Vol.	Page
American Mentone	24	277
Athens of America	20	326
Badger State	20	326
Bastille	20	324
Bay State	20	325
Bear State	20	325
Blackamoor	20	324
Bleeding Kansas	20	324
Blue and Gray Division	20	325
Blue-Bellies	20	324
Blue Bonnets	20	324
Blue Caps	20	324
Blue Hen State	20	325
Blue Hen's Chickens, The	8	613
Blue Law State	20	325
Blue Nose	4	126
	20	324

Philology, Slang, etc.— cont'd	Vol.	Page
Blue Ridge Division	20	325
Bluff City	20	326
Bog Trotter	20	324
Bombproofs	20	324
Bonnet Rouge	20	324
Brogue	4	574
Brother Jonathan	4	598
	20	323
	27	105
Buckeye Division	20	325
Buckeye State	20	326
Bullion State	20	325
Bummer	20	324
Butternuts	20	324
Cabbage Eater	20	324
Canuck	5	538
	20	324
Carlo	20	324
Charter Oak City	20	326
Chow	20	324
Chukhus	20	324
Cid, The Arabic	10	233
City of Brotherly Love	20	326
City of Magnificent Distances	20	326
City of Notions	20	326
City of Rocks	20	326
City of the Straits	20	326
Cockney	7	187
	20	324
Colin Tampon	20	324
Coon	20	324
Copperheads	20	324
Corncracker State	7	707
	20	325
Corn Exchange Regiment	24	700
Cossack of the Sea, The	18	156
Cousin Michael	8	125
	20	324
Cracker State	20	325
Crapaud, Jean, or Johnny	8	160
Creole	20	325
Creole State	8	179
Crescent City	20	326
Crescent City of the Northwest	20	326
Croatic	20	324
Cuddy	20	324
Cuffey	20	324
Custer Division	20	325
Dago	20	324
Dark Horse	8	478
Davy Jones	8	515
Davy Jones' Locker	8	515
Devil's Parliament	9	40
Divorcer, The	13	748
Dixie	20	324
Dixie Division	20	325
Dixie Land	20	324
Doughboy	20	325
Doughface	9	276
	20	324
Dude	9	382
Elm City	20	326
Empire City	20	326
Empire State	10	301
	20	326
Etiquette, Madame	10	554
Excelsior State	20	326
Falls City	20	326
Federal City	20	326
Fighting Parson, The	11	203
Flour City	20	326
Flower City	20	326
Forest City	20	326
Four Hundred, The	18	7
Freestone State	20	325
Friday	20	324
Frog-Eater	20	324
Frogs	20	324

Philology, Slang, etc.— cont'd	Vol.	Page
Game Cocks	20	325
Garden City	20	326
Garden State	20	325
Gate City	20	326
Golden City	20	326
Gopher State	13	61
Gotham	20	326
Granite State	13	124
	20	326
Greaser	20	324
Green Mountain City	20	326
Green Mountain State	20	326
Grizzly Bear State	20	325
Gulf State	20	325
Hans Worst (Jack Sausage)	20	324
Hawkeye State	20	325
Hoosier State	14	370
	20	325
Hub of the Universe, The	20	326
Illinois Division	20	325
Infidel	20	324
Iron City	20	326
Irus	15	400
Ivan Ivanovitch	20	324
Jack Pudding	20	324
Jacques	20	324
Jacques Bonhomme	20	324
Jayhawkers	20	324
Jean Baptiste	20	324
Jean Crapaud	20	324
Jean De La Suie	20	324
Jean Potage	20	324
Jeff Davis' Box	20	324
John Bull	20	323
John Chinaman	20	324
Johnny	20	324
Johnny Crapaud	20	324
Johnny Reb	20	324
Johnny Row	20	324
Keystone State	20	326
Kodak City, The	23	591
Koyote State	26	38
Ku-Klux Klan	20	325
Lake State	20	325
Lee's Division	20	325
Lightning Division	20	325
Lincoln Division	20	325
Little Giant	9	280
Little Rhody	20	326
Little Rome	24	177
Lone Star State	20	326
Long-curled Royalists	13	623
Long Knives	20	324
Lutetia	20	324
Macaroni	20	324
Mad Anthony	18	92
Maid Marian	18	139
Maid of Orleans	18	139
Maiden Queen	18	139
Metropolitan Division	20	325
Monumental City	20	326
Moskel	20	324
Mosoo	20	324
Mossy-back	20	324
Mound City	20	326
Mudcat State	20	325
Musical Box of the Confederates	20	324
Mynheer Closh (or Claus)	20	324
New England Division	20	325
New England of the West	20	325
New York Division	20	325
Nic Frog	20	324
Nicknames	19	686
national and popular	20	323
Niggerheads	20	324
Northern Giant	20	428
Nutmeg State	20	510

Philology, Slang, etc.— cont'd	Vol.	Page
Old Bullion	20	325
Old Dominion	20	326
Old Line State	20	325
Paddy	20	324
Palmetto State	20	326
Pantaleone	20	324
Panther Division	20	325
Pathfinder	21	393
Pelican State	20	325
Pennsylvania Division	20	325
Pickleherring	20	324
Pine Tree State	20	325
Piou-piou	20	324
Pitchfork Ben	26	627
Poets' Corner, The	22	279
Pollu	22	279
Polack	20	324
Pot de Bière	20	324
Prairie State	20	325
Quaker City	20	326
	23	56
	23	78
Queen of the Antilles	23	78
Queen City	20	326
	23	78
Queen City of Churches	20	326
Queen City of the Golden Gate	23	78
Queen City of the Lakes	20	326
	23	78
Queen of the Plains	23	78
Queen of the West	23	78
Rads	20	324
Railroad City	20	326
Rainbow Division	20	325
Rebels	20	324
Red Heads	20	324
Redshanks	20	324
Red Turbans	20	324
Robert Macaire	20	324
Roineck (Wry Neck)	20	324
Rose City, The	14	321
Rough and Ready	23	720
Rough Riders	23	720
Round-heads	13	623
Sage Brush State	24	108
Sage Hen State	24	108
Sambo	20	324
Sammy	20	324
Sawney	20	324
Secesh	20	324
Sick Man of Europe, The	24	784
Sister Peg	20	324
Slang	25	81
Spindle City	20	326
Squatter State	20	325
Sucker State, The	20	325
	25	786
Sunset Division	20	325
Sunshine State	25	297
	26	38
Surley Boy	20	324
Taffy	20	324
Tar Heel State	26	265
Thermopylæ of America	26	546
Thunder Bird	1	547
Tippecanoe	26	643
Tommy Atkins	26	683
Tri-mountain City	20	326
Turpentine State	20	326
Unbleached American	20	324
Uncle Sam	20	323
	27	101
Unspeakable Turk	20	324
White Feather	29	271
White League	20	325
Wild West Division	20	325
Wolverine State	20	325
Wooden Horse	20	324
Worm Crusher	20	324

Philology, Slang, etc.— cont'd Vol. Page

Yankee 20 324
29 613
Yankeedom 20 324
Yankee Doodle..... 20 324
Yanks, or Boys in Blue. 20 324
Yengees 20 324
Zenith City of the Unsalted Seas..... 20 326

Biographies

UNITED STATES

Addams, Jane..... 1 130
Angell, George Thorndike 1 682
Anthony, Susan Brownell 2 17
29 448
Appleton, Samuel 2 89
Armour, Philip Danforth 2 278
Astor, John Jacob..... 2 449
Astor, William Waldorf. 2 449
Bacon, Albion Fellows.. 3 18
Bacon, Leonard..... 3 24
Baldwin, William Henry 3 78
Barton, Clara..... 3 296
Bell, Isaac 3 475
Benezet, Anthony..... 3 509
Berger, Victor 3 545
Bergh, Henry..... 3 546
Bewley, Anthony..... 3 603
Bickpell, Ernest Percy.. 3 681
Birney, James Gillespie. 4 9
Blackwell, Alice Stone.. 4 47
Blackwell, Mrs. Antoinette Louise..... 4 48
Blair, John Insley..... 4 54
Blake, Mrs. Lillie (Devereux) Umstead..... 4 55
Blankenburg, Rudolph.. 4 62
Blatch, Harriet Stanton. 4 71
Bloomer, Amelia Jenks.. 4 115
Brisbane, Albert..... 11 550
Butler, Amos William.. 5 78
Butterfield, Kenyon Leech 5 88
Byrnes, Thomas 5 97
Carnegie, Andrew..... 5 632
15 264
25 189
Carpenter, Mary..... 5 653
Catt, C. L. C..... 6 108
Chafin, Eugene W..... 6 244
Chapman, Marie Weston 6 298
Chesley, Mary Russel... 6 423
Cheyney, Edward Potts. 6 434
Childs, George William. 6 499
Claghorn, Kate Holladay 7 29
Clark, Jonas Gilman.... 7 42
Coffin, Levi..... 7 213
Coffin, Lorenzo S..... 7 213
Colquhoun, Patrick..... 7 332
Comstock, Anthony..... 7 454
Conwell, Russell Herman 7 619
Cope, Thomas Pym.... 7 647
Corcoran, William Wilson 7 680
Crerar, John..... 8 180
Cresson, Elliott..... 8 182
Crittenton, Charles Nelson 8 214
Davenport, William Edwards 8 498
Davis, Katherine Bement 8 512
De Forest, Robert Weeks 8 593
Devine, Edward Thomas 9 40
Dinwiddie, Edwin Courtland 9 130
Dix, Dorothea Lynde... 9 209
Dodge, Grace Hoadley.. 9 220
Dodge, Jacob Richards. 9 220

Biographies — cont'd Vol. Page

Douglass, Frederick.... 9 281
Dow, Neal..... 9 286
Durand, E(dward) Dana 9 417
Durant, Henry Fowle... 9 418
Dwight, Louis..... 22 607
Eastman, Max 9 513
Eaton, Margaret O'Neill. 9 517
Eddy, Thomas..... 9 579
Eldridge, Shaler W.... 10 58
Ellwood, Charles Abram 10 258
Evans, John..... 10 592
Fairbank, Calvin..... 10 716
Farnam, Henry Walcott. 11 42
Farnham, Eliza Woodson Burhans 11 43
Fayerweather, Daniel... 11 72
Fisher, Irving..... 11 281
Fitzgibbon, Mary Irene. 11 301
Flesche, Susette La.... 4 540
Fletcher, Horace..... 11 348
Folks, Homer..... 11 422
Ford, Worthington Chauncey 11 466
Forsyth, James Bennett 8 694
Garrison, William Lloyd 12 298
George, Henry..... 12 478
25 184
George, William Reuben 12 479
Gibbons, Abigail..... 12 641
Giddings, Franklin Henry 12 645
Gilbert, Linda..... 12 649
Gillespie, Eliza Maria... 12 655
Girard, Stephen 12 663
Glenn, John Mark..... 12 715
Goddard, Henry H..... 6 470
Goodell, William..... 13 57
Gouch, John Bartholomew 13 82
Graham, Isabella (Marshall) 13 107
Graham, Sylvester..... 13 107
Greeley, Horace..... 11 550
13 419
Grenfell, Helen Loring.. 13 460
Grimké Sisters, The.... 13 475
Grimké, Thomas Smith. 13 475
Gunckel, John E..... 13 547
Hall, Florence Marion Howe 13 641
Hallowell, Richard Price 13 649
Hardenberg, Isabella... 25 232
Harris, Thomas Lake... 13 725
Hearst, Phœbe Apperson 14 36
Henderson, Charles R.. 14 93
Hensley, Sophia Almon. 14 109
Hogeland, Alexander.... 8 306
Hooker, Isabella Beecher 14 362
Hopkins, Johns 14 372
Hopper, Isaac Tatem... 14 374
Howe, Julia Ward..... 14 457
15 497
Howe, Samuel Gridley.. 14 458
Huntington, Margaret Evans 14 518
Hutchinson, Anne..... 11 109
14 529
James, Daniel Willis... 15 603
Jeanes, Anna T..... 15 765
Jesup, Morris Ketchum. 16 40
Kelley, Florence..... 16 340
Kellogg, Paul Underwood 16 342
Kellor, Frances Alice... 16 343
Kennedy, John Stewart. 16 356
Kimball, Martha Gertrude 16 415
Ladd, William..... 16 642
Lathrop, Julia Clifford. 16 764
Lathrop, Rose Hawthorne 16 764
Leavitt, Mary G. C..... 17 205
Lenox, James..... 17 288
Lewisohn, Adolph..... 17 337

Biographies — cont'd Vol. Page

Livermore, Mary Ashton Rice 17 535
Lockwood, Belva Ann Bennett 17 563
Logan, George..... 17 595
London, Meyer..... 17 619
Lovejoy, Owen Reed.... 17 695
Lowell, John 17 702
Lowell, Josephine Shaw. 17 702
Lownes, Caleb..... 22 606
Lowrie, Walter..... 17 705
Lunt, Orrington..... 17 747
Lyman, Theodore..... 17 774
McAuley, Jerry..... 18 14
McCormick, Cyrus Hall. 18 28
McDonogh, John..... 18 39
McKean, Thomas..... 18 65
McMillan, James..... 18 83
Mann, Horace..... 18 227
Marquand, Henry Gurdon 18 307
Martin, Frederick Townsend 18 337
Martin, Victoria Claflin Woodhull 18 339
Mason, Sir Josiah..... 18 382
Meriwether, Lee..... 18 676
Milbank, Joseph..... 19 55
Miller, Lewis..... 19 120
Millikin, James..... 19 127
Mills, Darius Ogden.... 19 128
Morgan, J(ohn) Pierpont 19 452
Morgan, Junius Spencer. 19 453
Mott, John Raleigh..... 19 519
Mott, Lucretia Coffin.... 19 519
Murphy, Charles Francis 19 608
Murphy, Francis..... 19 608
Nathan, Maud 19 723
Nearing, Scott..... 20 23
Normand, Jacques Etienne 20 405
North, Simon Newton Dexter 20 410
Oberholtzer, Sara Louisa (Vickers) 20 538
Ogden, Robert Curtis... 20 605
O'Neill, Peggy..... 9 517
Parker, Theodore..... 21 329
Passavant, William Alfred 21 368
Patten, Simon Nelson.. 21 407
Peabody, George..... 21 438
Pearsons, Daniel Kimball 21 458
Pellew, Henry Edward.. 21 486
Perkins, Thomas Handasyd 21 600
Perry, Arthur Latham.. 21 606
Phelps, Anson Greene... 21 718
Phelps, Richard H..... 22 606
Philleo, Prudence Crandall 21 761
Phillips, John..... 21 763
Phillips, William..... 21 765
Phipps, Henry..... 21 782
Pillsbury, Parker..... 22 88
Pinchot, Amos Richard Eno 22 93
Poulson, Niels..... 22 460
Powderly, Terence Vincent 22 475
Powers, Le Grand..... 22 497
Pratt, Charles..... 22 511
Pratt, Enoch..... 22 512
Procter, John Robert.. 22 630
Ratchford, Michael D.. 23 224
Rice, William Marsh.... 23 486
Robert, Christopher Rhinelander 23 565
Robins, Margaret Dreier 23 578
Robins, Raymond..... 23 578

Biographies — cont'd	Vol.	Page
Rose, Chauncey	23	692
Ross, Edward Alsworth	23	703
Round, William Marshall Fitts	23	721
Rubinow, Isaac Max	23	748
Ryan, John Augustine	24	70
Sage, Mrs. Russell	24	107
Schuyler, Louisa Lee	24	408
Seidel, Emil	24	532
Shaftesbury, Anthony Ashley Cooper	24	639
Sharp, Granville	24	661
Shaw, Anna Howard	24	664
Shepard, Helen Miller	24	697
Sinkhovitch, Mary Melinda Kingsbury	25	22
Simson, Sampson	25	30
Sister Augusta	2	449
Skilton, James A	25	70
Skinner, William	25	76
Slater, John Fox	25	84
Slocum, Margaret Olivia	24	107
Smiley, Albert Keith	25	110
Smiley, Daniel	25	110
Smith, Gerrit	25	118
Smith, Hannah Whitall	25	119
Smith, Sophia	25	127
Spear, Charles	25	365
Spear, James	25	365
Spencer, Sara Andrews	25	394
Spreckles, Rudolph	25	450
Springer, Reuben Runyan	25	454
Stanford, Jane Lathrop	25	482
Stanford, Leland	25	482
Stanton, Elizabeth Cady	25	487
Stanton, Henry Brewster	25	487
Steisle, Charles	25	613
Stetson, John Batterson	25	633
Stevens, Lillian M. N.	25	637
Stewart, William Rhinelander	25	644
Still, William	25	649
Stokes, Anson Phelps	25	668
Stokes, James Graham Phelps	25	669
Stone, Amasa	25	677
Stone, Lucy Blackwell	25	678
Story (Mrs.), William Cumming	25	700
Stranahen, James Samuel Thomas	25	709
Stratton, Charles Sherwood	25	718
Straus, Isidor	25	718
Straus, Nathan	16	136
	25	719
Taylor, Graham	26	298
Thompson, Elizabeth Rowell	26	577
Torrey, Charles Turner	26	710
Trusdell, Charles Gregory	27	107
Truth, Sojourner	27	116
Tubman, Harriet	27	127
Tucker, Benjamin Ricketson	27	128
Tuckerman, Joseph	27	130
Tulane, Paul	27	133
Turnbull, Robert J	22	606
Upchurch, John Jordan	15	177
	27	583
Vassar, Matthew	27	695
Vassar, Matthew, Jr.	27	695
Wadlin, Horace Greeley	28	206
Waldo, Lillian D	28	223
Walker, Mary Edwards	28	229
Walker, William Johnson	28	231
Walling, William English	28	241
Ward, E. G	25	160
Ward, Lester F	25	213
	28	699
Warren, Josiah	28	709
Washington, Booker T.	28	772
Watkinson, Davil	29	107
Weld, Theodore Dwight	29	176
Welsh, Herbert	29	189
Welsh, John	29	190
Wheeler, Wayne Bidwell	29	252
Wilbour, Charlotte Beebe	29	301
Willard, Frances Elizabeth	29	326
Willard, Josiah Flynt	29	326
Willcox, Walter Francis	29	327
Wines, Enoch Cobb	29	395
Wines, Frederick Howard	29	395
Wistar, Isaac Jones	29	429
Wolfe, Catharine Lorillard	29	440
Woods, Robert Archey	29	499
Woolley, John Granville	29	506
Wright, Carroll Davidson	29	568
Wyckoff, Walter Augustus	29	581
Young, Andrew White	29	648
Zueblin, Charles	29	736
BRITISH EMPIRE		
Aberdeen, Lady	15	497
Astell, Mary	11	108
Barnardo, Thomas John	3	265
Barrington, George	3	280
Bax, Ernest Belfort	3	357
Birkbeck, George	4	4
Blackburne, Joseph Henry	4	41
Booth, Charles	4	251
Burdett-Coutts, Right Hon. Angela Georgina	5	35
Burdett-Coutts, William Lehman Ashmead-Bartlett	5	35
Burns, John	5	59
Burt, Thomas	5	67
Butler, Josephine Grey	5	81
Buxton, Sir Thomas Fowell	5	93
Chadwick, Sir Edwin	6	242
Child, Sir Josiah	6	461
Clarkson, Thomas	7	50
Clopton, Sir Hugh	11	195
Coghlan, Timothy Augustine	7	214
Coram, Thomas	7	678
Corfield, William Henry	7	691
Crofton, Sir Walter	21	542
Davison, Emily Wilding	8	513
Drage, Geoffrey	9	293
Ellis, Henry Havelock	10	256
Faithfull, Emily	10	724
Fawcett, Henry	11	71
Firth, Mark	11	262
Fry, Elizabeth Gurney	12	139
Gardiner, Frank	5	74
Godwin, William	12	750
	25	176
Gourlay, Robert Fleming	13	85
Goring, Charles	21	541
Guiness, Sir Edward Cecil	13	540
Guinness, Sir Benjamin Lee	13	540
Gurney, Joseph John	13	576
Guthrie, Thomas	13	580
Guy, Thomas	13	583
Henry, Sir Edward Richard	11	222
	21	541
Heriot, George	14	128
Hobson, Tobias	14	306
Holloway, Thomas	14	319
Howard, John	14	452
	22	606
Hyndman, Henry Mayers	14	600
Isabel, Maria	1	38
Iveagh, Edward Cecil Guiness	15	562
Jackson, Sir Cyril	15	578
Kennedy, John Pitt	16	356
Kidd, Benjamin	16	400
Kyrle, John	23	705
Lancaster, Joseph	16	685
Laurence, Frederick William Pethick	17	145
Lay, Benjamin	17	156
Ludlow, John Malcolm Forbes	17	721
MacDonald, Sir William Christopher	18	38
McGill, James	18	48
Mac Gregor, John	18	50
McLennan, John Ferguson	18	79
Malthus, Thomas Robert	18	171
Marchant, James	18	272
Mathew, Theobald	18	436
Montefiore, Claude Joseph Goldsmid	19	398
Montefiore, Moses Hayim	19	398
Moon, William	19	423
Morley, Samuel	19	462
Mulhall, Michael George	19	554
Neale, Edward Vansittart	20	22
Nightingale, Florence	20	340
Norris, Edwin	20	407
Oastler, Richard	20	531
Owen, Robert	21	64
	25	175
Owen, Robert Dale	21	65
Pankhurst, Mrs. Emmeline	21	246
	29	453
Paxton, Sir Joseph	21	431
Pearson, Karl	21	458
Petty, Sir William	21	697
Plimsoll, Samuel	22	249
Price, Langford Lovell	22	568
Ravenstein, Ernst George	23	235
Reed, Andrew	23	292
Rowntree, B. Seebohm	23	733
Rowntree, Joseph	23	733
Rowton, Montagu William Lowry-Corry	23	733
Snowden, Ethel	25	152
Somerset, Lady Henry (Isabel)	25	251
Spencer, Herbert	14	252
	25	390
Stead, Francis Herbert	25	539
Stowe, Emily Howard	25	705
Thompson, George	26	577
Toynbee, Arnold	15	96
	25	190
	26	737
Treble, Lillian Massey	27	34
Tuke, William	27	133
Turpin, Richard	27	207
Vernon, George John Warren	28	33
Whittington, Sir Richard	11	555
	29	287
Wilberforce, William	29	301
Wilson, Sir William James Erasmus	29	363
Wollstonecraft, Mary	11	107
	29	249
FRANCE		
Appert, Benjamin Nicolas Marie	2	83

Biographies — cont'd	Vol.	Page
Babeuf, François Noël..	3	5
Babœuf, François Noël..	3	5
Berenger, René.....	3	540
Bertillon, Alphonse.....	3	581
	21	541
Blanc, Jean Joseph Louis	4	58
Blanc, Louis.....	25	176
Blondin, Charles.....	4	104
Boudinot, Elias.....	4	322
Comte, Auguste.....	14	252
Demetz, Frédéric Auguste	8	637
Durkheim, Emile.....	9	426
Espinas, Alfred Victor..	10	503
Fouillee, Alfred Jules Emile	11	532
Fourier, François Charles Marie	11	549
	25	476
Godin, Jean.....	11	550
Gravelet, Jean François	4	104
La Rochefoucauld-Liancourt, François Alexandre Frédéric.....	16	581
La Sizeranne, Maurice de	16	583
Le Nostre, André.....	17	167
Le Nôtre, André.....	17	167
Leclaire, Edmé-Jean....	17	210
Lemire, Jules Auguste..	17	279
Loubat, Joseph Florimond	17	671
Marbeau, Jean Baptiste Firmin	18	264
Naquet, Alfred Joseph..	19	703
Necker, Susanne Curchod de Nasse.....	20	37
Oberlin, Jean Frédéric..	20	538
Proudhon, Pierre Joseph	1	624
	22	696
	25	276
Restif De La Bretonne, Nicolas Edmé.....	23	419
Saint Simon, Claude Henri, Comte de.....	24	168
Saint-Simon, Henri de...	25	175
Saint Vincent de Paul..	6	72
	28	97
Sicard, Roch Ambroise Cucurron	24	776

Biographies — cont'd	Vol.	Page
GERMANY		
Barth, Paul.....	3	288
Bernstein, Eduard.....	3	576
Canstein, Karl Hildebrand	5	528
Canstein, Karl Hildebrand von.....	5	528
Conrad, Johannes.....	7	536
Engel, Ernst.....	10	334
Engels, Friedrich.....	10	337
	25	578
Flürsheim, Michael.....	11	404
Francke, August H.....	11	762
Fried, Alfred Hermann..	12	103
Hirsch, Maurice.....	14	204
Lange, Friedrich Albert	16	718
Löhe, Johann Konrad Wilhelm	17	612
Marx, Karl.....	14	289
	18	345
	25	178
Michels, Robert.....	19	18
Morganstern, Lina (Bauer)	19	457
Müller, Georg Friedrich	19	557
Neumann, Casper.....	25	536
Ottendorfer, Oswald....	21	48
Schäffle, Albert Eberhard Friedrich	24	362
Scheidemann, Philip....	24	365
Stirner, Max.....	25	176
Swan, Knight of The...	26	110
Von Ketteler, Baron (Bishop of Mainz)....	6	73
Weitling, Wilhelm Christian	29	175
Wichern, Johann Heinrich	29	289
OTHER COUNTRIES		
Adler, Victor.....	1	143
Annenski, Nikolai Feodorovich	1	717
Arsenyev, Konstantin Ivanovich	2	334
Bakunin, Michel.....	1	624
	3	64
Bernadine of Feltre.....	11	195
Borgi, Giovanni.....	4	270
Bronstein, Leon.....	27	95
Camerlynck, Achille.....	5	262

Biographies — cont'd	Vol.	Page
Cervole, Armand de.....	6	230
Cervolle, Armand de....	6	230
Cespedes y Borges, Carlos Manuel de.....	6	231
Collard, Charles François Thomas.....	7	252
Cuffee, Paul.....	8	298
De Groot, Hugo.....	13	490
Deutsch, Leo Grigorevitch	9	34
Dunant, Jean Henri....	9	400
Fényes, Alexius.....	11	118
Ferraris, Carlo Francesco	11	137
Ferri, Enrico.....	11	140
Ferri, Luigi.....	11	140
Goldman, Emma.....	13	30
Grotius	13	490
Gumplowicz, Ludwig...	13	546
Herodes	24	513
Jejebhoy, Sir Jamsetjee.	16	10
Lombroso, Cesare	17	617
Malatesta, Enrico.....	1	625
Marcello, Adriana Zon..	15	497
Melegari, Dora.....	15	498
Mikhailovski, Nikolai Konstantinovitch	19	52
Montessori, Maria.....	19	404
Ozanam, Frederick.....	21	85
Pestalozzi, Johann Heinrich	21	654
Peter the Calabrian.....	3	140
Plekhanoff, George.....	22	245
Quetelet	25	537
Ratzenhofer, Gustav....	25	215
Saint Basil.....	3	307
Shogun Tsunayoshi.....	15	632
Tausen, Hans.....	26	206
Taverna (Countess), Lavinia	15	498
Tell, William.....	26	400
Trotzky, Leon.....	27	95
Vidyasagar, Iswar Chandra	28	77

See also **Amusements, Games and Sports; Customs and Social Life; Education; Ethnology and Anthropology; History; Language and Literature; Mythology; Philosophy; Religion.**

SUGAR AND SUGAR MAKING

General	Vol.	Page
American Sugar Refining Co	1	565
Beet sugar	3	431
carbonation of	25	801
history of	25	799
industry in California	5	208
industry in the United States	3	431
industry statistics	3	433
Cane sugar	25	794
and beet sugar, comparison of	25	802
Defaction	25	797
Dextrose	9	52
Diffusion	25	796
Duty on Cuban sugar	25	803
Inversion	15	103
Jaggery	21	216
Levulose	17	331
Maize sugar	25	803
Maple sugar	25	802
adulteration of	18	260
industry	18	260
history of	18	260
production of	18	260
Palm sugar	25	802
Sorghum	25	264
diseases of	25	265
non-sacharine	25	265
saccharine	25	264
sugar	25	803
Sugar	25	794

General — cont'd	Vol.	Page
beet	3	431
	25	799
cane	25	794
consumed in the United States	25	805
consumption of	25	805
growing	25	794
industry in Argentina	17	75
industry in Brazil	4	434
	17	74
industry in Colombia	17	75
industry in Costa Rica	17	75
industry in Cuba	17	73
industry in the Dominican Republic	17	73
industry in France	11	704
industry in Guatemala	17	75
industry in Latin America	17	73
industry in Mexico	17	74
	18	747
industry in Peru	17	74
industry in Venezuela	17	75
making	25	794
carbonation	25	801
clarification of cane juice	25	797
defaction of cane juice	25	797

General — cont'd	Vol.	Page
diffusion	25	796
evaporation and crystallization	25	798
molasses	25	801
super heating	25	798
utilization of Bagasse	25	797
production of the world	25	804
purification of	25	801
refining	25	801
trade of the world	25	803
Sugar-beet	25	799
Sugar-beets, cultivation	28	800
harvesting	25	800
methods of growing	3	434
planting	25	800
preparation of soil	25	800
thinning	25	800
Sugar cane	25	794
cultivation	25	795
	25	796
description of	25	795
extraction of juice	25	796
fertilization of	25	795
harvesting	25	796
irrigation	25	796
planting	25	795
preparation of soil	25	795
preserving seed	25	795
propagation of	25	795
varieties of	25	794
Syrup	26	196

TEXTILES AND TEXTILE MANUFACTURE

Raw Materials	Vol.	Page
Abaca	18	216
Abb	15	98
coarse	15	98
fine	15	98
Alpaca	1	435
	17	82
Associated fibres	2	424
Broom root	11	168
Coir	7	225
	11	475
Cord-grass	7	680
Cuba bast	11	169
Fabrics, incombustible	14	741

Raw Materials — cont'd	Vol.	Page
Fibre	11	165
	11	475
	14	91
African	11	168
Agave	11	169
associated	2	424
bass	11	168
bast	3	320
	11	166
	14	91
brush	11	166
crin végétal	11	168
	11	166

Raw Materials — cont'd	Vol.	Page
Cuba bast	11	169
filling	11	167
kittool	11	168
	11	475
natural textures	11	166
palm	21	216
palmetto	11	168
palmyra	11	168
	21	218
pandan	11	169
piassaba	11	475
piassava	11	168
pineapple	11	169

Raw Materials — cont'd	Vol.	Page
pita	11	169
pulu	11	168
plaiting	11	166
pseudo	11	166
or false	11	166
rough weaving	11	166
spinning	11	166
structural	11	166
surface	11	166
woody	11	165
	11	166
yucca	11	169
Flax	11	337
courtrai	11	338
New Zealand	11	168
	11	338
Hemp	14	90
deccan	14	167
Manila	18	216
Mauritius	11	168
sisal	25	46
Sunn	11	167
Istle	15	425
Jute	16	267
Llama	17	82
Manila hemp	18	216
Marsh grass	7	680
Merino	18	675
Mexico, silk industry	18	750
Noils	20	391
Phormium	21	793
Raffia	11	168
	11	475
Rattan	23	227
Silk, raw	25	3
production	25	6
worms	25	7
Snake gourd	11	169
Spanish moss	11	168
Sponge cucumber	11	169
Straw	11	169
Tampico	15	425
Tow	15	105
Wool	17	42
	29	501
Chilean	17	81
fibre	29	502
industry in Argentina	17	80
industry in Brazil	17	82
industry in Chile	17	81
industry in Colombia	17	82
industry in France	11	707
industry in Latin America	17	80
industry in Peru	17	60
	17	82
industry in Uruguay	17	81
production	27	500

Manufacture

Manufacture — cont'd	Vol.	Page
Beaming	15	99
Bleaching	4	72
materials	4	74
powder	17	208
Bobbin	4	138
Branning	15	99
Calico-printing	5	195
Cannel	15	99
Carding	15	99
and combing machinery	8	79
machine, first	18	59
Carpet and rug industry	5	657
Carpet establishments	26	474
Carpet, first machine-made	5	658
making, history of	5	657
statistics	26	474
Combing	15	100
Conditioning	15	100
Counts	15	100
Crabbing	15	100
Cram	15	100
Crewel-work	8	190
Cropping	15	100
Damping	15	100
Distaff	9	172
Doff	15	100
Doffer	9	223
Double-milled	15	101
Doubler	15	101
Draft	15	101
Draw-boy	15	101
Drawing rolls	15	101
Easing	15	101
Embossing	10	275
Embroidery	10	275
Filature	15	101
Fillet	15	101
Filling	15	101
Fine-drawing	15	101
Float	15	102
Flurry	15	102
Fly	15	102
Fly-shuttle	15	96
	17	650
Fuller's earth	12	155
Fulling	12	156
Gaging-thread	15	102
Gassing	15	102
Gigging	15	102
Gilling	15	102
Glossing	15	102
Glove, manufacture in America	12	722
Gobelin manufactory	12	742
Hackling	15	102
Hank	29	166
Harness	15	102
Kerfing	15	103
Knit goods	26	475
Knitting	16	488
machine	16	488
Knop yarn	15	103
Lap	15	103
Lime boil	4	73
Line	15	103
Linen, grassing	17	458
heckling	17	458
retting	17	458
rippling	17	458
scutching	17	458
statistics	26	475
Lingoes	15	103
Lint doctor	17	467
Loom	26	478
Chernack circular	17	651
hand	17	650
	29	136
Jacquard	29	140
Lye boil	4	73
Mercerizing	18	656
Mexico, textiles and fibres	18	751
Mohair	19	291
Mule	15	103
Noils	15	103
	20	391
Ox-gall	21	69
Peckham process	4	73
Picking	15	104
Power loom, Cartwright's	13	280
first American use of	4	295
Raising	15	104
Reedy	15	104
Reel	23	296
Retting	15	104
Roving	15	104
Rugs, process of making	23	757
weaving of	23	762
Scutching	11	338
Shawls, production of	24	667
Shuttle	24	762
Silk, artificial, process of manufacture	15	285
dyeing	25	4
floss	11	380
industry	11	707
	15	718
	25	1
	26	470
establishments	26	470
foreign	25	6
Germany	26	477
history of	25	1
statistics	26	470
of the United States comparative growth	25	5
machine	25	5
manufacture of	25	3
production	26	477
reeling, art of	25	1
ribbon, mills	26	470
spinning	25	4
throwing	25	4
weaving	25	4
Singeing	4	73
Skein	29	166
Sliver	15	104
Soap boil	4	73
Souple	15	104
Sour	4	73
Spinning	15	104
	25	414
improved	26	471
jenny	25	415
wheel	15	96
Sweat-shop	15	89
system	10	701
Tambour work	26	233
Tapestries, weaving, history of	26	258
manufacture of	26	256
Textile designing	26	467
industry	26	467
	26	468
American	26	467
diminished cost	26	469
equipments	26	469
expedients of colonists	26	468
exports	26	469
	26	477
from 1850	26	469
future needs	26	476
in Russia	24	47
its evolution	26	468
machinery	26	469
mills	26	469
steps of evolution	26	468
wool	26	472
machinery	18	61
mills	26	469
printing	26	477
Ultramarine	27	264
Union	15	105
Warp	15	105
Waterproofing	29	75
Weave	29	137
plain	29	137
sateen	29	140
simplest	26	479
twill	29	138
Weaving	29	136
cross	29	141
double	29	141
of patterns	26	479
pile	29	142
Weft or woof	15	105
Wool carding	5	603

Manufacture — cont'd	Vol.	Page
machine, first	26	468
machinery	26	469
manufacture of, into cloth	29	504
manufacture, specialization	26	472
manufacturing statistics, United States	29	505
Woolen factory, first	26	468

Finished Products

	Vol.	Page
Balbriggan	14	425
Barége	3	246
Barracan	3	274
Batiste	3	339
Beige	3	449
Blanket	4	62
Blankets, Indian	4	62
Mysore	4	62
Navajo	19	784
Bolting cloth	4	196
Bombazine	4	201
Brocade	4	570
	26	479
Brocades, Eastern	26	479
Bulbulchasm	22	146
Bunting	5	27
Byssus	5	102
Calamanco	5	155
Camblet	5	266
Camlet	5	266
Carpet	5	656
	26	474
Axminster	5	657
	5	659
Brussels	5	657
ingrain	5	657
Kidderminster	16	401
Moquette	5	659
rag	5	659
	23	763
tapestry	5	659
tapestry velvet	5	659
Wilton	5	659
	29	370
Cathdath	22	143
Check	22	143
Chenille	6	411
Chintz	6	561
Colonial homespun	26	467
Cordage	7	680
Cotton, mercerized	18	656
Crape	8	169
Crepe-de-chine	25	5
Crinoline	8	204
Damask linen patterns	26	479
Damasks	29	140
Diaper	9	70
Dornick or Dornock	9	267
Dowlas	9	287
Drugget	9	350
Endromis	10	324
Fabrics, variety of	26	469
Fabrikoid	10	696
Felt	11	106
Flannel	11	334
Fleeced fabric	14	425
Floor cloth	11	361
Floss	25	5
French foot	17	193
Frieze	12	110
Fustian	12	203
	15	102
Gauze	12	344
Golf hose	17	194
Gunny	13	553
Holland linen	14	318
Hosiery and knit goods	14	424
	26	474
Japanese textiles	26	479
Jute bags	16	268

Finished Products — cont'd	Vol.	Page
Jute fabrics	16	268
Kersey	16	381
Khes	22	146
Knit goods	26	474
Lace	16	627
Antwerp	16	630
Bayeux	16	629
Blande	16	629
Bobbinet	4	138
Brussels point and pillow	16	629
Chantilly	16	629
English	19	630
Flemish	16	629
French pillow	16	628
French point	16	628
German	19	630
gold	13	14
Haniton pillow	16	631
Irish	16	631
Italian pillow	16	628
Italian point	16	627
Lille	19	630
Mechlin	16	630
Spanish	16	629
Lawn	17	143
Linen	17	418
Linoleum	17	462
Linsey	17	466
woolsey	17	466
	26	467
Lint	17	467
Mackintosh	18	74
Matting	18	445
Mercerized cotton	18	656
Merino	18	675
Mesh fabrics	14	425
Mohair	19	291
Moire	19	309
Moleskin	19	323
Muslin	19	653
Nankeen	19	688
Nanking cloth	19	688
Net	20	87
Oil cloth	11	361
Piece-goods	15	104
Plaids	22	143
shepherds'	22	146
Plodden	22	143
Plush	22	259
	26	480
fabrics	25	5
Poplin	22	363
Prunella	17	197
	22	714
Rags	23	134
Ramié	23	202
Ribbons	23	482
	25	3
Rugs	23	757
Caucasian	23	760
Chinese	23	762
Herati	23	759
Heriz	23	759
Indian	23	762
Iran	23	759
Kilims	23	762
Kirman	23	759
Kurdistan	23	759
Oriental	23	757
ornamentation of	23	758
Persian	23	759
prayer	22	516
Sehna	23	760
symbolism	23	758
Teheran	23	759
Turkish	23	760
Turkoman	23	761
Sailcloth	24	112
Samplers	24	225
Satin	24	311

Finished Products — cont'd	Vol.	Page
Satin	26	479
Satinet	24	311
Serge	24	591
Seton	24	607
Shalloon	24	654
Shawl	24	666
Shawls, cashmere	24	666
paisley	21	132
	24	667
Silk	9	411
	18	750
	25	1
artificial	25	1
fabrics, Byzantine	25	2
imports	25	3
sewing	25	5
weaves, ribbed	26	479
Stocking	25	661
Tabby	26	197
Tapestries	26	252
Aubbusson	26	254
Bayeux	3	364
Beauvais	26	253
Brussels	5	658
	5	659
English	26	254
extant masterpieces	26	255
Flemish art	26	259
Gobelin	12	742
Gothic	26	252
Italian	26	253
Japanese	26	255
oldest	26	258
Renaissance	26	253
Savonnerie	26	254
Tarlatan	26	272
Tarpaulin	26	272
Tarstin	22	143
Tarsuin	22	143
Tartan	22	143
	26	275
Textiles	11	706
	26	478
	29	75
exports of	26	476
English	26	477
fabrics	26	478
France	11	700
foreign	26	476
or textile fabrics	26	478
variety of fabrics	26	469
Thread	26	792
Tiretaine	22	143
Tweeds	27	214
Twill	27	228
Velveteen	17	200
Velvets	25	5
	26	479
	27	725
Vesting	17	200
Wampum	28	252
Wool, felted	26	473
manufactures	26	472
statistics	26	472
textiles	26	472
specialization	26	472
Woolen goods	18	750
	26	473
Woolen specialties, American	26	473
Woolen tissues, England's output of	26	477
Woolens of Canada	5	447
Worsted goods	26	473
statistics	26	473
Worsted manufacture	26	473
Worsteds	26	473
	29	761
Yarn	29	615

See also Cotton and Cotton Products.

TRANSPORTATION AND COMMUNICATION

General	Vol.	Page
Adams and Company	10	664
Adams' express	10	663
American Express Company	10	664
Animal power	19	97
Aerial wire rope tramways	29	415
Aeroplane. See **Aeronautics.**		
Automobile	2	643
See also **Automobiles and self-propelled Vehicles.**		
Automobile tractor	26	746
Average haul	13	259
Balloon. See **Aeronautics.**		
Barouche	3	273
Belgian Homer	14	341
Bicycle	3	681
	15	283
Britzka	4	566
Brougham	4	600
Cab	5	114
Carriage	5	665
Carrier-pigeon	14	341
Carrying trade	24	115
Caterpillar tractor	26	747
Chaise	6	249
Coach	5	666
	7	141
	13	608
Common carriers	7	409
Country Life Commission (1908)	13	52
Diligence	9	119
Dirigible. See **Aeronautics.**		
Droschky	9	340
Droshky	9	340
Drosky	9	340
Electric trucks	23	523
Electric vehicles	10	146
Elevators	10	225
belt driven	10	226
electric	10	227
hydraulic	10	226
safety appliances	10	228
steam	10	226
Express service	10	661
Fire and smoke signals	26	328
Fraught money	7	396
Freight	12	54
handling	12	55
ocean	12	56
service	23	176
Georgia highways	12	486
Good roads, Federal aid to	13	56
movement	13	52
Hackney carriage	13	608
Harden's express	10	663
Heliography	26	340
Highway data	23	560
Highways, Russian	24	51
Homing-pigeon	14	341
Horseless carriage, first practical	15	285

General — cont'd	Vol.	Page
Hydroplane. See **Aeronautics.**		
India roads	15	6
Internal combustion engine	15	224
Interstate Commerce Commission, membership	22	782
Interstate Commerce Commission, salaries	22	782
Jinrikisha	16	147
Kibitka	16	399
Letters of credit	10	662
Lincoln highway	17	455
Long haul	13	259
Luzon, roads	17	766
Mileage	19	56
Military tractor	26	747
Motorcycle	15	285
Motor truck	19	517
National Express Company	10	664
Ocean freight	12	56
Ocean transportation, South American	17	36
Omnibus	20	683
One-horse vehicle, light	14	388
Overland Mail Company	10	664
Palankeen	21	185
Palanquin	21	185
Palki	21	135
Petroleum transportation	21	688
Pipe lines	22	110
Pneumatic tire	15	283
Pneumatic tubes	22	266
Pony express	10	664
	22	353
Porto Rico roads	22	402
Posting	22	437
Power, animal	19	97
Prairie schooner	22	508
Public utilities	22	778
fair valuation of	22	781
obligations upon	22	779
regulation of	22	780
	22	782
Public utility Commissions	27	498
powers of	22	782
Purser	23	31
Raft	23	132
Road-building in United States, history of	23	559
Roads and Highways	23	557
Austria-Hungary	23	561
Canada	23	561
France	23	561
Great Britain	23	561
Germany	23	562
Italy	23	562
Norway	23	562
Russia	23	562
Spain	23	562
Sweden	23	562
Switzerland	23	562

General — cont'd	Vol.	Page
United States	23	559
	23	560
	23	561
Russian highways	24	49
Semaphore	24	546
	26	328
signaling	26	329
Signaling	24	801
army	24	802
land	24	802
semaphore	26	329
Signals	24	801
miscellaneous	24	803
smoke	26	328
weather	24	802
Smoke signals	26	328
Southern Express Company	10	664
Surrey	26	91
Traction engine	26	745
Tractor	26	746
automobile	26	746
caterpillar	26	747
military	26	747
Traffic and transportation, German	12	603
Transportation	27	9
Transportation and communication of:		
Afghanistan	1	206
Alabama	1	301
Alaska	1	316
Alberta	1	335
Argentina	2	219
	17	32
Arkansas	2	258
Asia	2	394
Australia	2	606
Balkans	28	642
Bavaria	3	354
Bolivia	4	189
	17	33
Brazil	4	441
	17	35
British Columbia	4	555
Canada	5	452
Central America	17	35
Ceylon	6	235
Chile	6	509
	17	33
Colombia	7	283
	17	34
Connecticut	7	528
Costa Rica	8	44
Cuba	8	286
Delaware	8	610
Equador	9	574
	17	34
Florida	11	372
German Southwest Africa	12	501
Germany	12	603
Guatemala	13	579
Hawaii	14	2
Iceland	14	628
Idaho	14	656
Illinois	14	684
Iowa	15	298

General — cont'd	Vol.	Page
Ireland	15	313
Jamaica	15	599
Kentucky	16	367
Latin America	17	81
Louisiana	17	682
Manitoba	18	222
Maryland	18	353
Mexico	17	35
	18	753
Michigan	19	23
Minnesota	19	203
Mississippi	19	245
Nebraska	20	27
Nevada	20	108
Newfoundland	20	270
New Hampshire	20	126
New Jersey	20	189
New Mexico	20	150
New York	20	192
North Dakota	20	422
Norway	20	438
Nova Scotia	20	464
Ohio	20	612
Oklahoma	20	637
Oregon	20	779
Panama	21	231
Persia	21	616
Peru	17	84
Philippine Islands	21	757
Portugal	22	411
Prince Edward Island	22	582
Prussia	22	718
Queensland	23	82
Russia	24	44
Scotland	24	432
Serbia	24	581
Siam	24	765
South American interior	17	40
South Carolina	25	291
Spain	25	329
Switzerland	26	147
Tennessee	26	421
Texas	26	462
Turkey	27	182
Uruguay	17	33
	27	605
Venezuela	17	34
Vermont	28	21
Virginia	28	119
Washington (State)	28	784
Wisconsin	29	420
Wyoming	29	586
Transportation facilities	22	366
Transportation, military	19	96
motor	19	97
Traveling sidewalk	27	20
Trucks, electric	28	523
Turnpike	27	206
United States express	10	664
Vehicles, electric	10	146
Velocipede	27	724
Visa	28	133
Vise	28	133
Wagon	28	211
roads, Russian	24	51
Warehousing system	28	703
Wells, Fargo and Company	10	664
Wigwagging	26	340
	29	300

Postal Systems

British post	22	426
Colonial post in America	22	426
Dead Letter Office	22	424
Egypt, post-office system	10	6
India postal system	15	7
Money-order Service	22	432

Postal Systems — cont'd	Vol.	Page
Money-orders, international	22	434
Money-order system	22	424
Neal's American Post	22	426
Netherlands, post-office system	20	90
New Zealand, postal system	20	249
Parcel Post	21	292
domestic	21	294
effect on express service	21	294
Law	21	293
rates	21	293
Peru post office system	21	646
Postal Money-order Service	22	432
Postal Savings System	22	436
Post and Postal Service	22	425
Postal rate increases	22	424
Postal savings banks	22	424
Postal Union	22	424
Post-office Department	22	423
Post-office statistics	22	424
Public post, early history of	22	425
Railway post office	22	424
Rural Free Delivery	22	424
United States post	22	426

Railroads

African railways	23	153
Alaska railroads	1	316
American railways, car equipment	23	141
American railway systems	27	498
American street railways	1	564
Arizona railroads	2	252
Asia railways	2	394
Asia Minor, railways	2	399
Atchison, Topeka and Santa Fé Railway	2	489
Atlantic Coast Line Railroad Company	2	503
Australian railways	23	153
Austrian railways	23	153
Automatic coupler	5	577
	5	581
Bagdad Railway	13	343
	28	264
Baggage and combination cars	5	580
Baldwin's "Old Ironsides" locomotive	17	566
Baltimore and Ohio Railroad	3	121
	5	576
	17	580
Belgian railways	23	148
Blenkinsop's rack locomotive	17	566
Block and light signaling	23	172
Block signal system	4	91
Block system, absolute permissive	4	93
Blocking, automatic	4	93
controlled manual	4	92
manual	4	92
Boston Elevated Railway system	23	166
Box cars, iron	25	601
British Columbia Electric Railway Company	5	451
Brooklyn Elevated Silent Safety Railway	23	165
Brook's locomotive	17	566

Railroads — cont'd	Vol.	Page
Brunton's locomotive	17	566
Burlington System of Railways	23	175
Cable car	15	284
Caboose	5	126
California, railroads and street railways	5	210
Canada Atlantic Railway	13	130
Canada Atlantic Transit Company	13	130
Canadian government railways	5	478
Canadian Northern Railway	5	458
	5	478
Canadian Pacific Railway	5	458
	5	479
Car building	5	575
industry	5	575
statistics	5	581
Cars, baggage	5	580
combination	5	580
dump	5	580
features of construction	5	581
flat	5	580
freight	5	580
	23	140
heating	23	142
hopper	5	580
lighting	23	142
Pintsch system	22	104
observation	5	579
parlor	5	579
passenger	5	579
	23	140
sleeping	5	579
	23	141
special service	5	580
statistics of	5	581
street railway	5	581
Central of Georgia Railway Company	6	208
Central Railroad of New Jersey	6	211
Central Vermont Railway Company	6	212
	13	130
Chapman's chain locomotive	17	566
Chesapeake and Ohio Railway	6	421
Chicago and Alton Railroad	6	446
Chicago and North Western Railway	6	449
Chicago, Burlington and Quincy Railroad	6	446
Chicago Great Western Railroad Company	6	447
Chicago, Indianapolis and Louisville Railway	6	447
Chicago, Milwaukee and Saint Paul Railway	6	448
Chicago, Rock Island and Pacific Railway Company	6	450
China railroads	6	521
Cleveland, Cincinnati, Chicago and Saint Louis Railway Company	7	99
Coal cars, steel	23	141
Colorado railroads	7	320
Commercial traffic	11	719
Common carriers	7	409
Competing lines	23	143
Conduit system	23	171
Connecticut railroads	7	528

Railroads — cont'd	Vol.	Page
Cars, corridor	23	141
Couplers, automatic	23	142
Janney	23	142
M. C. B.	23	142
Coupling chains	23	142
Cupples Station	8	304
Danish railways	23	1[illegible]0
Day cars, modern	23	141
Delaware and Hudson Railroad	8	615
Delaware, Lackawanna and Western Railroad Company	8	616
Direct-current railway motors	26	741
Eads Ship Railway	26	326
Egypt, railways	10	6
Electrical energy, fluctuations in consumption	26	556
Electric locomotives	17	587
Electric railway, first in United States	15	285
Electric roads, car equipment	23	166
Empire State Express	17	587
Engine-houses, American	23	162
Engine terminal	23	162
English railways	23	144
Federal government management of American railways	23	178
Federal Railway Administration	27	496
Flat cars	5	580
Fourth week	7	396
French railways	11	714
	23	145
history of, 1823–79	11	704
Freight cars	5	580
	23	140
European	23	142
special	23	142
number and capacity	23	178
Freight tonnage carried one mile	23	176
Freight train load, average	23	177
Freycinet Railroad scheme	11	715
Gasoline locomotive	17	587
Georgia railways	12	486
German railways	23	150
Government control of railroads during the European War	23	167
Grade crossings, elimination of	13	104
Grand Rapids and Indiana Railway Company	13	127
Grand Trunk Pacific Railway Company	5	4[illegible]8
	13	129
Grand Trunk Railway Company	15	211
Grand Trunk Railway System of Canada	13	129
Granger railways	23	175
Gravity railroads	26	142
Great Britain, railways	13	259
	23	144
Great Central Railway	23	145
Great Eastern Railway Company	13	259
Great Northern Railway Company	13	358
Great Western Railway of Canada	13	130
Great Western Railway of England	4	98

Railroads — cont'd	Vol.	Page
Guiana railways	13	529
Hackworth's "Royal Gorge" locomotive	17	566
Halifax and Quebec Railway	15	211
Hedley's Puffing Billy	17	566
Holland railways	23	151
Hopper cars	5	580
	25	601
Husted Act	23	164
Illinois Central Railroad	14	694
India railways	15	6
	23	151
Indiana railroads and street railroads	15	34
Intercolonial Railway	5	458
	15	211
Internal combustion locomotives	17	587
Interstate Commerce Law	23	174
Interstate rates, Federal regulation of	23	174
Italian railways	23	149
Kansas railroads	16	295
Lackawanna Railroad	8	617
Lehigh Valley Railroad Company	17	258
Liverpool and Manchester Railway	5	576
Locomotive	5	576
	17	565
air brake equipment	1	280
boiler performance	17	576
combustion chamber	17	572
compound	17	576
cylinder performance	17	576
electric	26	744
feed-water heaters	17	574
fire-box	17	572
fuels	17	569
coal	17	570
coke	17	571
oil	17	569
wood	17	569
geared	17	577
history of	17	565
industry	17	580
mechanical stokers	17	573
modern, economy of	17	576
performance	17	574
present day	17	567
principal parts of	17	577
super-heaters	17	573
types	17	568
freight	17	569
passenger	17	569
switching	17	569
valve gears	17	573
water for	17	572
London and Northwestern Railway	23	145
London, intramural transit in	23	145
Long distance train	23	141
Louisville and Nashville Railroad	17	690
Mallet locomotive	17	585
Manhattan Elevated Railway Company	23	164
Massachusetts railroads	18	409
Merthyr Tydvil Railway	17	566
Metropolitan Elevated Road	23	164
Mexican railways	23	151
Military railroads	19	78
Miller's "The Friend" locomotive	17	566
Missouri railroads	19	256
Mitrovitza Railway	28	264

Railroads — cont'd	Vol.	Page
Mobilized forces, transportation of	11	719
Mogul locomotive	17	581
Monorail	19	366
Behr system	19	367
Romanoff system	19	367
Tunis	19	366
Montana railroads	19	389
Nashville, Chattanooga and Saint Louis Railway	19	716
National Transcontinental Railway	19	743
Netherlands railways	20	90
New York Central Railroad Company	20	239
New York Connecting Railroad	4	510
New Zealand railways	20	249
Norfolk and Western Railway Company	20	402
North Carolina railroads	20	414
Northern and North Western System of Railways	13	130
North Western Line	6	449
Norway railroads	20	438
Norwegian railways	23	151
Nova Scotia Railway	15	211
Observation cars	5	579
Ohio Railroad Company	27	110
Old Ironsides locomotive	17	581
Ontario railways	20	694
Ouest Railway	11	716
Overhead trolley system	26	742
Pacific locomotive	17	586
Paraguay railroads	21	281
Parallel lines	23	143
Parlor car	5	579
	5	580
Passenger cars	5	577
	5	579
	23	140
Passenger car shops	23	162
Passenger equipment, American railroad	23	141
Passenger Railway between Stockton and Darlington, England, first	15	282
Pennsylvania Railroad Company	21	537
Peru railways	21	645
Philadelphia and Reading Railway Company	21	734
Porto Rico railways	22	402
Portuguese railways	23	151
Prince Edward Island Railway	22	582
Private coach, first	14	388
Pullman cars	5	577
	5	580
Pullman Company	5	580
	23	141
Railroad and other land grants	23	136
Railroad capitalization	27	494
Railroad commissions	27	498
Railroad conditions in 1851	14	695
Railroad construction	27	493
Railroad near Quincy, Mass., first	15	282
Railroad speeds	25	437
	25	443
Railroad System, Russian	24	49
Railroad trackage	27	493
Railroad traffic	27	494
differentials	9	106

Railroads — cont'd	Vol.	Page
Railroad transportation	27	498
Railroads, American, business organization of	27	496
and politics	23	170
effect of government control on State taxation of	23	167
Railway	5	576
accidents and legislation regarding	1	73
capital	23	176
cars, passenger and freight	23	140
direct dynamo lighting	23	140
electric lighting of	23	142
heating of	23	141
lighting of	23	141
Commission, French	11	718
special court	13	260
companies, French	11	718
effect of World War on	11	720
consolidation	23	143
in Africa	23	153
in Australia	23	153
in Austria	23	150
in Belgium	23	148
in England	23	143
in France	23	143
in Germany	23	150
in India	23	151
in Italy	23	149
in Mexico	23	151
in minor European countries	23	151
in Russia	23	150
in South America	23	153
construction	23	154
and combination	23	144
Belgian	23	148
true law of	23	143
see also under Engineering — Civil Engineering, subheading Railway.		
development	23	147
in relation to population	22	365
employees	23	176
engineering	23	154
fares, street and electric	23	173
freight rates	27	494
freight service	27	495
freight traffic	27	494
grade crossings	23	157
labor organizations. See also Labor.	23	160
law, English	18	260
length open	23	148
lines, Italian	23	149
mileage, Austrian	23	150
German	23	150
Russian	24	50
motors, direct current	26	741
movement of freight	23	176
passenger service	23	176
	27	495
passenger traffic	27	494
post office	22	424
regulation, code of, German	23	150
present system	23	167
service, analysis of	23	176
utilization of	23	176
shops and machinery	23	162

Railroads — cont'd	Vol.	Page
situation, Mexican	23	151
statistics, French	11	720
switchback	26	142
system, American	27	493
development of	23	174
system, French	23	146
	23	147
Italian, length of	23	149
systems, laws governing	1	260
tariffs	11	717
war in Belgium	23	148
water stations	23	163
Railways, African	23	153
American	23	143
	23	173
aggregate length of	23	173
car equipment	23	141
new mileage from 1835	23	174
six great systems	23	175
and roads, Porto Rican	22	402
and transportation, Serbian	24	581
Argentine	2	220
Australian	2	606
	23	153
Brazilian	23	153
British	13	259
Dominican	9	246
elevated	23	163
equipment of	27	493
European	23	141
expenses of	27	494
French	11	716
financial system of	11	716
military organization of	11	718
German	23	150
government control of	23	167
government owned and operated, Norwegian	23	151
government ownership of	23	153
	23	168
of minor European countries	23	151
of the United States	23	173
Mexican, government ownership of	23	151
personnel	27	493
revenues of	27	494
Prussian	22	718
street	23	171
suspension	26	102
underground	25	776
Refrigerator cars	23	141
Repair plant for locomotives	23	162
Revenue passengers carried per mile of track	23	171
Rhode Island railways	23	467
Rocket locomotive	17	581
Prussian railways	23	150
	24	49
Saint Lawrence and Atlantic Railway Company	13	599
Seaboard Air Line Railway Company	24	477
Second and Third Avenue Lines, New York City	23	165
Serbia railroads	24	581
Ship Railway	24	724

Railroads — cont'd	Vol.	Page
Signals, interlocking	4	95
out-door	4	95
Single-phase locomotives	26	744
Sleeping car	5	579
	5	580
	15	283
	23	141
Smoking cars	5	579
South American railways	23	151
South Dakota, railway mileage	25	300
South Eastern Railway of England	4	98
Southern Pacific Company	25	311
Southern Railway Company	25	313
Spanish railways	23	151
Special service cars	5	580
Spokane-Portland Railway	4	501
Standard sleeping car	5	579
State railways, Canadian	23	170
Stephenson's locomotive	17	566
Stephenson's "Robert Fulton" locomotive	17	566
Stephenson's "The Locomotion" locomotive	17	566
Stephenson's The Rocket locomotive	17	566
Stock cars	5	580
Stockton and Darlington Railway	5	576
Storage battery stepless type car	23	172
Stourbridge Lion locomotive	17	566
Street car development	23	173
evolution	23	173
Street railway cars	5	581
illumination of	23	172
Subways	25	777
H system	25	778
history of	25	776
New York	25	777
Parisian	25	777
Supply railways	26	51
Suspension railway	26	102
Swedish railways	23	151
Tank cars	5	580
Telpherage	26	402
Third-rail installations	23	173
Third-rail sections	23	166
Third-rail system	26	555
capacity for handling passengers	26	556
cost of power	26	556
difficult problems	26	556
service	26	556
Tom Thumb locomotive	17	566
Tourist cars	5	579
Track tanks	23	163
Tracks and structures, improvements	23	178
Tracks, maintenance of	23	172
Traction, electric	26	740
multiple-unit control system	26	742
Tractive power, average	23	177
Tramways	5	576
Transcaspian Railway	27	3
Trans-Siberian Railway	24	50
	27	3
Uganda Railway	28	400
Underground trolleys	26	743
Union Pacific System	27	287
United States, railroad transportation	27	493
Westinghouse air-brake	5	578
West Side Elevated Railroad Company	23	164

Railroads — cont'd	Vol.	Page
West Virginia railroads	29	212
Wheeling and Lake Erie Railway	29	253
Wrecking cars	5	581

Water Transportation

VESSELS, LIGHTHOUSES, ETC.

	Vol.	Page
A 1	1	2
Abaft	24	720
Admiralty and maritime jurisdiction	1	145
Aft	24	729
After	24	729
American Bureau of Shipping	1	502
American-Ephemeris and Nautical Almanac	20	10
American liners	25	559
American Nautical Almanac	20	10
American tonnage, licensed	18	663
Anchor	1	652
	24	729
gear	25	772
ketch	16	383
Anchorage	1	653
Aquitania	25	559
Argentine shipping	2	219
Ark	24	112
Astronomy, nautical	20	7
Athwartship	24	729
Australian shipping	2	609
Back-staff	3	17
Ballast	3	98
	24	722
	24	729
Bark	3	254
	24	729
Barque	3	254
Beacons	3	373
	17	429
Beam	24	729
Bearing	3	382
Bells	3	492
Below	24	729
Berth	24	729
Bielo-ozero	3	690
Bilge	3	701
	24	729
blocks	3	701
keel	3	701
	24	729
keelson	3	701
water	3	701
Bilgeways	3	702
Binnacle	3	716
Bitts	24	729
Block	24	729
Boat	4	136
ferry	11	143
Boats, ancient history	24	112
Hudson River	25	556
Long Island Sound	25	556
motor	19	515
Bobstay	24	729
Boom	24	729
Boss	24	729
Bottle charts	4	317
Bottomry	4	319
Bow	24	729
Bowditch's Practical Navigator	4	360
Breakwaters	13	688
	13	691
Bridge	24	729
Brig	4	535
	24	729

Water Transportation — cont'd	Vol.	Page
Brigantine	4	536
Builder's measurement	18	481
Bulkhead	5	7
	24	729
Bulwark	24	729
Bum boat	5	21
Bunker	24	729
Buoyancy	24	729
Buoys	5	29
	17	429
Cable	5	121
Cables, chain	5	121
Caboose	5	126
California, navigation	5	208
Calking	6	131
	24	729
Camber	24	729
Canoe	5	512
birch bark	5	512
Esquimaux	5	512
Cant	24	729
Cap	5	541
Capstan	5	573
	24	729
Caravel	5	585
Cargo	5	607
	24	722
	26	688
and ballast	24	722
measurement	26	688
Carline	24	729
Carrying trade	24	115
Catamaran	6	43
Cat-boat	6	29
Cauking	6	131
Caulking	6	131
	24	729
Centreboard	6	214
	24	729
Centre line	24	729
Chain-wales	6	289
Channels	6	289
Charlotte Dundas	25	554
Chart	6	336
gnomonic	13	355
navigation	6	337
Chinsing	24	729
Chock	6	581
	24	729
Chronometers, marine	3	581
Cleat	24	730
Clew	24	730
Clipper	7	116
	18	639
bow	7	116
first	24	116
ships	24	116
Coaling stations	7	165
Coaming	24	730
Coast guard	17	410
Coast pilots	7	169
Coastwise steamships	25	559
Coble, or Cobble	7	177
Cockswain	8	142
Coffer dam	24	730
Cohasset Rocks Lighthouse	10	212
Collision	7	270
Commonwealth	25	557
Compass, boxing	4	370
deviation of	9	37
mariner's	7	427
	12	661
Concrete ships	7	474
Coracle, or Currach	7	676
Corsair	8	23
Coxswain	8	142
Cradle	24	730
Crew	8	189

Water Transportation — cont'd	Vol.	Page
Crosstrees	24	730
Cutwater	24	730
Dak	8	412
Danish sound dues	8	462
Danube Navigation Commission	8	468
Davits	8	513
	24	730
fish	11	279
Dawk	8	412
Deadeye	8	525
	24	730
Dead flat	8	525
Deadlight	8	525
	24	730
Dead reckoning	8	526
Dead-ropes	8	525
Deadweight tonnage	26	688
Deck	24	730
Departure	8	701
Devil's claw	9	40
Dhow	9	53
Displacement	24	730
tonnage	26	688
Docks	13	688
	13	690
Dock warrant	9	216
Dogwatch	9	232
Doldrums	9	234
Dominican shipping	9	246
Dress ship	9	331
Double bottom	24	730
Draft	24	730
Drag	24	730
Dry dock	24	730
Dunnage	9	406
	24	730
Dutch ships	24	112
Eddystone Lighthouse	13	311
Emergency Fleet Corporation	18	662
Engine, marine	10	339
Even keel	24	730
Fabricated ships	24	720
Fair lead	24	730
Fake	24	730
Fall	24	730
Felucca	11	107
Fender	24	730
Ferry	11	143
boats	11	143
double screw	25	560
early	25	556
steam	25	556
Fid	18	303
Fire quarters	11	248
Fire-ships	11	248
Fish davit	11	279
Flag	11	308
Floats	11	359
Fog	11	411
signals	11	411
	17	430
Fore	24	730
and aft	24	730
Forecastle	24	730
Forward	24	730
Framing	24	730
Freeboard	24	730
Free port	12	43
Free ships, free goods	12	43
trial of	18	661
Free trade	12	44
French merchant fleet	11	721
Frigate	12	110
Funnel-marks	12	175
Furness Line of Steamships	12	181
Futtock	24	730

Water Transportation — cont'd	Vol.	Page
plate	24	730
shrouds	24	730
Gaff	12	224
Galleon	12	244
Gallery	12	245
Galley	5	126
	12	245
	24	730
Galleys, Roman	24	112
Gangway	24	730
Gant line	24	730
Garboard strake	24	730
Garnet	24	730
Gasket	24	730
Gimbal	24	730
Girt line	24	730
Gondola	13	45
Great Britain, shipping	13	256
Great circle sailing	13	355
Great Western	14	293
Gripe	13	480
Gross tonnage	24	730
	26	688
Guiana, shipping	13	529
Gunter's scale	13	573
Gunwale	24	730
Halliard	24	730
Halyard	24	730
Hamburg Port	13	689
Harbors	13	688
Hatch	24	730
Hawse	24	730
Hawser	5	121
	14	9
	24	730
Head	24	730
Heel	24	730
Helm	24	730
Hogging	24	730
Hold	24	730
Hounds	24	730
Hudson River boats	25	556
Hull	24	730
Hydrography	14	576
Hydrographic Office, United States	14	575
Ice	14	620
Iceberg	14	626
Ice-breaker	14	622
Imperator	25	559
Inboard	24	730
India, shipping and navigation of	15	6
Inland waterways	15	139
Insurance, marine	15	193
Intercostal	24	730
Jackstaff	24	730
Jetsam	7	397
	16	46
Jettison	16	47
Jury mast	16	262
Kedge	16	332
anchor	16	332
Keel	24	730
Keelson	16	333
	16	346
	24	730
Kelson	16	346
Ketch anchor	16	383
Knightheads	24	730
Knot	16	491
Knotting and splicing	16	491
Lake steamers	25	557
Laniard	16	732
Lanyard	16	732
Larboard	16	746
Latitude	17	95
by dead reckoning	20	8
Launch	17	104

Water Transportation — cont'd	Vol.	Page
Launching	24	730
Lee	17	226
Leeway	17	231
Length	24	730
Leviathan	25	559
Life boat	17	409
American	17	410
requirements	17	410
Life preserver	17	413
first	15	282
Life-rafts	17	413
Life-rockets	17	414
Life-Saving Service, United States	17	414
Lighter	17	428
Lighterage	7	397
Light-house	17	428
Administration	17	430
construction	17	428
lanterns	17	429
machines	17	429
optical apparatus	17	428
radiants	17	429
Service, United States	17	431
steel tubular	17	430
Lightships	17	429
Liners, American	25	559
Lines	24	730
packet	24	115
Lloyd's register	17	550
Load line	17	550
Log	17	593
book	17	594
patent	17	594
taffrail	17	594
London docks	17	629
Long Island Sound boats	25	556
Longitude	17	645
by dead reckoning	20	8
Longitudinal	24	730
Lusitania	17	750
Magazine	24	730
Marine engine	10	339
Marine insurance	15	193
Mariner's compass	7	427
Maritime law	18	295
Marline	24	730
spike	18	303
Marlingspike	18	303
Martingale	24	730
Mary Powell	25	556
Masts	24	721
	24	730
military	19	77
Mauretania	25	559
Measurement tonnage	26	688
Mercator's projection	23	478
Merchant marine	24	735
colonial	24	115
decline before Civil War	18	660
early growth of American	18	657
stagnation after war	18	661
United States	18	657
war growth	18	662
Merchant ships	24	113
Merchant vessels, neutral rights	18	664
transfer from belligerents to neutrals	24	665
Metacentre	24	730
Midship	24	730
Minot's Ledge Light-house	19	212
Mooring	24	730
Motor boats	19	515
Mould loft	24	731
Nautical training schools	19	782

Water Transportation — cont'd	Vol.	Page
Naval stores	20	3
Navigation	14	545
	20	7
Act	20	15
Acts, British	13	253
Laws	20	15
Netherlands, shipping and navigation	20	90
Net tonnage	24	731
	26	688
New Zealand, shipping	20	250
Norway, shipping and navigation	20	438
Oakum	24	731
Ocean freight	12	56
Ocean steamships	25	558
Olympic	25	559
Ontario shipping	20	694
Oregon shipbuilding	20	776
Orlap-deck	21	1
Outboard	24	731
Outrigger	24	731
Overhang	24	731
Packet lines	24	115
Packets	18	659
Paddle	21	92
Panama Canal tolls	21	238
Panting	24	731
Pennsylvania, navigation	21	522
Periagua	22	115
Peru, navigation	21	645
Phœnix	25	556
Pillar	24	731
Pilot and pilotage	22	89
Pilot, coast	7	169
Pintle	24	731
Pirogue	22	115
Pitch	22	120
Polacca	22	286
Polacre	22	286
Poop	24	731
Port	24	731
Portugal, navigation	22	411
shipping	22	411
Prince Edward Island, shipping	22	582
Privateer	22	611
Projection, gnomonic	13	355
Propellers	24	731
efficiency of	24	452
Ericsson	24	453
Griffith's	24	453
Hirsch	24	453
Jarrow	24	453
marine	24	451
Maudslay	24	453
Ressel	24	453
improved	24	453
screw	24	451
	25	560
slip	24	452
slow	24	453
speed of	24	452
tests of screw	24	452
Thornycroft	24	453
twin	24	454
Protractors, great circle	13	355
Pungy	24	731
Punt	24	731
Purchase	24	731
Quarantine	23	57
Quarter	24	731
deck	24	731
gallery	24	731
Quay	23	71
Rail	24	731
Railway, ship	24	724
Rake	24	731
Ratline	24	731

Water Transportation — cont'd

	Vol.	Page
Reef	23	296
Registry of vessels	23	324
Repeater	23	384
Revenue cutter	23	443
Rhumb line	23	478
Rig	24	731
Rigging	24	731
ship	24	724
Right of search	23	520
Rise	24	731
Rise of bottom	24	731
Rockets	23	45
Roll	24	731
Roman galleys	24	112
Rudder	23	751
	24	731
post	24	731
stop	24	731
Sagging	24	731
Sailcloth	24	112
Sailing records	24	117
Sailing speed	24	117
Sailing vessels	24	112
ancient history	24	112
races	24	117
rivalry	24	117
tonnage	24	118
Sails	24	721
Salvage	24	213
Sampan	24	225
Samson post	24	731
Santo Domingo, merchant marine	24	286
Schooner	24	115
	24	731
Schooners, modern	24	118
steel	24	725
Screw propellers	25	560
Screws, multiple	24	454
Scuppers	24	731
Sea anchor	24	731
Sealing vessels	24	481
Seaman	24	486
Seaports	13	689
Searchlight	24	488
Seas, freedom of	24	490
Serpent boat	21	220
Sextant	24	629
Shackle	24	731
Shaft	24	731
tunnel	24	731
Shallop	24	654
Sheave	24	731
Sheer	24	731
Sheers	24	677
Sheer strake	24	731
Sheet	24	731
anchor	24	731
Shell plating	24	731
Ship	24	716
	24	731
Shipbuilding, early	24	114
industry	24	725
terms	24	729
United States	24	725
Ship	24	716
capacity	24	718
construction	24	718
	24	727
displacement	24	727
fabricated	24	720
frame	24	719
iron and steel	24	720
keel	24	719
masts	24	721
money	24	723
railway	24	724
Registry Act	24	724
requirements of	24	717
rigging	24	721
	24	724
running	24	724
standing	24	724
terms	24	724
sails	24	721
spars	24	721
stores	20	3
strength of structure	24	718
trim	24	718
Shipping, America Bureau of	1	502
Board, United States	24	727
of principal nations	24	734
of the world	24	733
subsidies	24	732
Austria	24	732
Belgium	24	732
Denmark	24	732
France	24	732
Germany	24	732
Great Britain	24	732
Holland	24	732
Italy	24	732
Japan	24	732
Norway	24	732
Russia	24	733
Spain	24	733
Sweden	24	733
United States	24	733
terms	24	729
war losses	24	735
	28	651
world	24	733
Ships, cargo and ballast	24	722
clipper	24	116
concrete	7	474
methods of construction	7	474
Dutch	24	113
fabricated	24	720
fire	11	248
first American	24	114
iron and steel	24	720
iron hull	24	118
keel and frame	24	719
launching	24	720
masts and spars	24	721
measurement of	18	481
merchant	24	113
rigging	24	721
Viking	24	112
Shore line	24	745
Shrouds	24	731
	24	759
Siam, shipping	24	765
Signals, marine	24	801
naval	24	800
night	24	800
of distress	24	800
Skerryvore Lighthouse	25	69
Skids	24	731
Skin boats	5	512
Sling	24	731
Slippage	25	98
Slocum disaster	25	99
Sloop	24	731
Smack	25	101
Snubbing post	24	731
Soo Canal tonnage	24	319
South American river transportation	17	38
South American shipping	17	36
Spain, shipping	25	329
Spar deck	24	731
Spars	24	721
	24	731
Speed boats	19	515
Sphereograph	13	355
Spherograph	25	402
Sprit	24	731
	25	460
Stability	24	731
Stanchion	24	731
Starboard	24	731
Stay	24	731
Stealer	24	731
Steam, application of, to navigation	13	257
Steamboat	25	546
first	15	282
Steamboats, early	25	553
Maine coastal	25	558
Western river	25	558
Steamers	18	659
lake	25	557
Steam navigation on the Great Lakes	25	557
Steamship speeds	25	436
Steamships, coastwise	25	559
ocean	25	558
steel	24	726
transatlantic records	25	436
turbine	27	174
Steam vessels	25	553
first American	25	554
Steel schooners	24	725
Steel steamships	24	726
Steerage	25	609
Steering gear of a sailing vessel	18	505
Steering gear in submarine	25	772
Stem	24	731
Stemson	24	731
Stern	24	731
frame	24	731
Sternson	24	731
Strake	24	731
Stringer	24	731
Supercargo	7	398
Symington's Clermont	13	257
Tackle	24	731
	26	204
Taffrail	24	731
log	17	594
Tank top	24	731
Tholes	24	731
Thrust block	24	731
Tides	26	611
Tie plate	24	731
Tiller	24	732
Tolls, Panama Canal	21	238
Tonnage	26	687
deadweight	26	688
displacement	26	688
gross	26	688
measurement	26	688
net	26	688
Trade, carrying	24	115
Transatlantic records	25	436
Transom	24	732
Transport	27	8
Transverse frame	24	732
Trend	24	732
Trestletrees	24	732
Trim	24	732
Tugboat	27	132
Tumble home	24	732
Turbine experiments	27	173
Turbine navigation	27	173
Turbine passenger steamship	27	174
Turbinia experiments	27	173
Underwriters' registry	17	550
United States Commerce Court	27	551

Water Transportation — cont'd Vol. Page

United States Custom Court 27 551
United States foreign commerce 27 499
United States merchant marine 18 657
United States Shipping Board 18 662
24 727
Upper deck..... 24 732
Vertical keel..... 24 732
Vessel tonnage and commerce 7 370
Vessels, entry and clearance of..... 28 44
merchant, neutral rights of 18 664
transfer of from belligerents to neutrals 18 665
registry of..... 23 324
sailing 24 112
speed of..... 24 718
steam 25 553
first American.. 25 554
Viking ships 24 113
Waist 24 732
Warping 24 732
Water line..... 24 732
Weather deck..... 24 732
Well 24 732
Wharf construction.... 29 237
Wharves 29 237
Winch 24 732
Wire rope..... 29 414
Whalebacks 25 560
Wherry 29 254
Wreck 29 565
Wreckage 29 566
Xebec 29 596
Yachts 29 601
gasoline 29 604
racing 29 603
speed of..... 29 604
steam 29 604
Yard 24 732
arm 24 732
Yawl 29 617
Zenith, declination of.. 20 14
See also under **Engineering—Marine Engineering; Ships, Shipping and Shipbuilding.**

WATERWAYS

Alaska canals..... 29 101
Alaska waterways..... 29 101
Alabama waterways.... 29 87
Allegheny River..... 29 95
Amazon River..... 1 468
Apoon Mouth..... 29 101
Bácser Canal..... 12 20
Barge Canal..... 3 247
23 590
Berry, Canal de..... 3 579
Big Sandy River..... 29 96
California waterways... 29 98
Calumet River..... 20 96
Canadian canals..... 5 458
5 476
Cape Cod Canal..... 24 723
29 101
Chambly Canal..... 5 477
Charlotte Harbor..... 29 98
Chesapeake and Delaware Canal..... 29 85
Chesapeake and Ohio Canal 5 485
Clearwater Harbor..... 29 87

Water Transportation — cont'd Vol. Page

Clinch River..... 29 94
Columbia River..... 29 99
Congo River 16 515
Corinth Canal..... 24 722
Cornwall Canal..... 5 454
5 458
5 477
Dalles-Celilo Canal..... 29 99
Danube River..... 8 468
Delaware River..... 29 85
Dismal Swamp Canal... 9 167
Elbe River..... 10 55
Elsemere Canal..... 13 311
Erie Canal..... 5 454
5 485
Ferry 11 143
Fox River..... 29 96
Galveston Harbor..... 29 90
Ganges Canal..... 12 273
Gotha Canal..... 13 311
Great Lakes and connecting waterways 29 97
system 29 96
Gulf Coast waterways.. 29 87
Gulf state waterways development 29 91
Hawaii waterways..... 29 101
Hennepin Canal 5 486
Hiawassee River..... 29 94
Houston Ship Canal... 29 90
Hudson River..... 14 471
29 84
Humboldt Harbor..... 29 99
Illinois and Michigan Canal 5 486
29 97
Illinois and Mississippi Canal 29 97
Illinois River..... 29 97
India canals..... 15 7
Intercoastal Canal..... 15 210
Interoceanic canals..... 27 363
Intracoastal Canal..... 15 210
James River and Kanawha Canal..... 5 486
Kaiser Wilhelm Canal.. 16 279
16 407
24 723
27 151
Keweenaw waterway.... 29 97
Key West harbor..... 29 87
Kiel Canal..... 16 279
16 407
Kongo River..... 16 515
Lachine Canal..... 5 454
5 476
9 236
Lake Pontchartrain..... 29 89
Lake Washington Canal. 29 100
London docks..... 17 629
Long Island Sound..... 29 84
Louisville and Portland Canal 29 95
Manchester Ship Canal. 24 723
Marseilles-Rhone Canal. 24 723
Mississippi River 19 248
Mississippi system..... 29 92
waterways 29 88
Moline lock and dam... 29 92
Monongahela River..... 29 95
Montana waterways..... 29 99
Muscle Shoals Canal.... 29 94
Muskingum River..... 29 96
Newport News harbor.. 29 86
New York Harbor..... 20 228
Niagara River..... 29 98
Nile River..... 20 346
Norfolk Harbor..... 29 85
Oakland Harbor..... 29 98
Ohio Falls Canal..... 5 487

Water Transportation — cont'd Vol. Page

Olympia Harbor..... 29 100
Oregon waterways..... 29 99
Pacific Coast waterways. 29 98
Panama Canal..... 21 233
23 395
29 101
Panama Canal, in relation to international commerce in..... 21 239
Pensacola Harbor..... 29 88
Poe lock..... 29 97
Port Arthur Canal..... 29 90
Port Arthur Ship Canal 22 378
29 90
Porto Rico waterways.. 29 101
Puget Sound..... 29 100
Puyallup waterway..... 29 100
Quay 23 71
Raritan Bay..... 29 85
Red River of the North. 29 93
Rhine River..... 28 461
Rhone River..... 23 478
Rideau-Ottawa Canal System 5 454
5 477
River systems, Russian. 24 50
River Transportation, South American..... 17 38
Russian River systems.. 24 50
Sabine-Neches Canal.... 29 91
Saint Joseph River..... 29 97
Saint Lawrence Canal.. 5 456
5 457
5 458
5 476
Saint Lawrence River... 24 140
Saint Mary's Falls..... 24 318
Saint Mary's Falls Canal. 24 723
29 98
Saint Michael Canal..... 29 101
Saint Peter's Canal..... 5 478
Saint Petersburg Canal. 24 722
Sault Sainte Marie Canal 5 458
5 459
5 477
24 318
Scheldt River..... 24 365
Seine River..... 24 533
Ship canals..... 24 722
Soo canals..... 24 318
Canal, tonnage..... 24 319
Soulanges Canal..... 5 458
5 477
Suez Canal..... 25 789
Tacoma Harbor..... 29 100
Tampa Bay..... 29 87
Tennessee River..... 29 94
Thames River..... 26 487
Tolls, Panama Canal.... 21 238
Trent navigation system 5 477
United States Boat Canal. 5 485
Volga River..... 28 173
Wabash River..... 29 95
Washington Harbor.... 29 85
Waterways, Alabama... 29 87
Alaskan 29 101
Atlantic Coast..... 29 82
Baltimore district.. 29 85
California 29 98
Connecticut 29 83
Great Lake system.. 29 96
Gulf Coast..... 29 87
Hawaiian 29 101
Indiana 29 95
inland 15 139
internal, Russian.... 24 50
Kentucky 29 96
Kentucky and Ohio. 29 95
Keweenaw 29 97
Louisiana 29 88
Maine 29 82

Water Transportation — cont'd Vol. Page

Waterways, Massachusetts 29 83
Mississippi 29 88
system 29 92
Montana 29 99
New Hampshire..... 29 83
New Jersey..... 29 84
New York..... 29 84
of Middle Atlantic States 29 85
of North Middle States 29 94
of South Atlantic States 29 86
of the United States 29 82
Ohio 29 95
Oregon 29 99
Pacific Coast..... 29 98
Pennsylvania 29 84
29 95
Porto Rico..... 29 101
Puyallup 29 100
Rhode Island..... 29 83
Russian 24 49
Tennessee 29 94
Texas 29 90
Vermont 29 83
Virginia 29 95
Washington 29 99
Wilmington district. 29 86
West Virginia..... 29 95
Weitzel lock..... 29 97
Welland Canal..... 5 454
5 458
5 477
29 178
Whatcom Creek waterway 29 100
Wherry 29 254
Willapa Harbor..... 29 100
Williamsburg Canal .. 5 454
5 477
Yellowstone River..... 29 630
Yukon River..... 29 101

Telephones and Telegraphs

Alaska telegraphs and telephones 1 317
Automatic fire-alarm signals 10 120
stations 22 490
telegraph repeaters. 26 333
telegraph systems.. 26 334
transmission 5 124
Barclay printing telegraph 26 342
Baudot printing telegraph 26 342
Bellini-Tosi directive wireless signal system 26 356
Bell's photophone 22 15
26 384
Cable 5 121
Atlantic 5 122
Pacific 5 123
relays 5 125
submarine 5 122
De Forest wireless telephone 26 386
Egypt telegraph system 10 6
Electric telegraph, first conception of 15 283
First telegram sent.... 15 283
Heising multiplex wireless telephone system 26 392
India telegraphs and telephones 15 7

Telephones and Telegraphs — cont'd Vol. Page

Long distance wireless telephony 26 393
Marconi's tuned wireless telegraph system 26 373
Marconi wireless telegraph station 26 360
Morse code 10 166
Morse electro-magnetic telegraph 26 330
Morse system of telegraphy 10 166
Morse telegraph apparatus 26 332
Morse telegraphy circuit 26 330
Morse telegraph key... 26 332
telegraph relay 26 332
Needle telegraph systems 26 329
Netherlands telegraph system 20 90
New Zealand telegraph system 20 249
Peru telegraph system. 21 646
Polybius telegraph 24 328
Receiver, Wheatstone Automatic 26 335
Semaphore 24 546
Stock tickers 26 340
Submarine cables — mileage 26 344
Telautograph 13 165
26 327
Telechirograph 26 327
Telegraph message service 10 119
Telegraph sounder..... 26 331
26 333
Telegraph transmitters. 26 333
Telegraphone 26 328
Telegraphy 10 157
10 158
26 328
alphabets 26 331
automatic repeaters. 26 333
automatic systems.. 26 334
Barclay page printer 26 342
Baudot multiple printer 26 342
Bright's bell 26 329
Buckingham page printer 26 342
chemical automatic systems 26 334
composite 26 339
dial 26 340
duplex 26 336
electric systems ... 26 329
Hughes' printing .. 26 341
lightning arresters. 26 333
military 26 340
miscellaneous 26 343
Morse electro-magnetic 26 330
Morse relay 26 332
multiplex printing system 26 343
Murray page printer 26 342
naval 26 340
needle systems 26 329
polar duplex 26 337
polybius system ... 26 328
printing 26 340
quadruplex (Edison) 26 338
semaphore systems. 26 328
simultaneous 26 339
sounder 26 333
speed of systems... 26 344
Stearns duplex..... 26 336

Telephones and Telegraphs — cont'd Vol. Page

stock tickers 26 340
submarine cable ... 26 338
submarine sound .. 26 344
synchronous multiplex 26 339
systems in practical operation 26 343
transmitters 26 333
transmitting keys.. 26 332
Wheatstone automatic system 26 335
writing systems ... 26 336
Telegraphy wireless ... 26 345
aerial 26 350
atmospheric interference in 26 357
Bellini-Tosi signal system 26 356
bent antennæ 26 356
Castelli detector ... 26 348
condensers 26 351
De Forest audion.. 26 349
detectors 26 348
direction finders.... 26 355
directive signaling.. 26 355
Edison quadruplex. 26 338
electric wave localizer 26 355
electric wave meters 26 353
electric wave propagation 26 346
Fleming's transmitting circuits 26 354
Fleming valve detector 26 349
generators of electric oscillations .. 26 351
Marconi's early experiments ... 26 347
tuned system .. 26 353
polar duplex 26 337
quenched spark transmitter 26 352
silicon detector 26 348
statics 26 357
syntony 26 351
theory of bridge duplex 26 336
trans-Atlantic 26 359
tuning 26 351
vacuum tube detectors 26 348
vertical wire 26 350
wave motion 26 355
Weagent anti-static device 26 358
26 345
Telemeter 26 361
Telephone 26 363
aerial cables 26 376
automatic switchhook 26 369
automatic systems . 26 374
balance metallic circuit 26 375
Bell's invention ... 26 364
Berliner transmitter 26 366
Boston - Washington underground cable 26 378
bridging bells 26 369
early interurban cables 26 377
fine wire cable..... 26 377
grounded circuit .. 26 375
induction coil 26 368
insulated dry-core paper cable 26 377

Telephones and Telegraphs — cont'd Vol. Page
interference from other electrical systems 26 381
invention of 26 364
lines 26 374
loaded lines 26 379
multiplex telephony 26 381
open wire lines.... 26 375
party lines 26 378
phantom circuits .. 26 376
private branch exchanges 24 373
receiver 26 366
repeaters 26 379
series 26 369
signalling systems.. 26 368
switchboards 26 370
systems 26 382
independent ... 26 383
toll boards 26 373
transcontinental circuits 26 381
transmission theory. 26 378
transmitter 26 366
transmitter of variable resistance ... 15 284
trunking systems .. 26 373
underground cables. 26 376
wire mileage 26 383
work of early investigators 26 366
Telephony 10 157
wireless 26 384
Colbitt's vacuum tube oscillator 26 388
De Forest's 26 386
future of 26 394
long distance.. 26 393
multiple 26 391
transmitters ... 26 387
vacuum tube oscillator 26 387
Telephote 26 395
Telharmonium 26 400
Telpherage 26 402
Wireless, signalling, directive 26 356
Wireless telegraphy.... 10 167
26 345
future of 26 394
telegraphy, system of 15 285
telegraphy, tuning.. 26 351
telephone transmitters 26 387
telephony 26 384
telephony in aerial service 26 390
Writing telegraph systems 26 336
See also under **Engineering — Electrical Engineering.**

Biographies

UNITED STATES

Adams, Alvin..... 10 663
Armstrong, George..... 2 285
Aspinwall, William H.. 2 408
Atterbury, William Wallace 2 522
Baer, George Frederick. 3 36
Baldwin, William Henry. 3 78
Bancroft, William Amos. 3 136
Cassatt, Alexander Johnston 5 708
Corning, Erastus..... 7 714
Cooper, Theodore..... 7 637
Cramp, Charles H..... 8 152
Drake, Francis Marion. 9 302
Drew, Daniel..... 9 332
Eckford, Henry..... 9 545
Evans, Oliver..... 25 555
Felton, Samuel Morse.. 11 107
Fitch, John..... 25 554
Fulton, Robert..... 25 555
Gibbons, Thomas..... 25 556
Grace, William Russell. 13 102
Herreshoff, John Brown. 14 145
Herreshoff, Nathanael Greene 14 146
Hill, James Jerome..... 14 188
Huntington, Collis Potter 14 517
Ingalls, Melville Era... 15 127
Kirkman, Marshall Monroe 16 459
Leonard, James Francis. 17 302
Livingston, Robert R... 25 555
Lovett, Robert Scott.... 17 696
Mellen, Charles Sanger. 18 606
Meyer, Balthasar Henry. 19 1
McAdoo, William Gibbs. 18 4
Morey, Samuel..... 25 555
Ogden, Aaron..... 25 556
Ogden, William Butler.. 20 605
Olyphant, Robert Morrison 20 675
Plant, Morton F..... 22 153
Pullman, George Mortimer 5 579
22 798
Rea, Samuel..... 23 242
Roach, John..... 23 556
Rumsay, James..... 25 555
Scott, Thomas Alexander 24 441
Shanly, Walter..... 24 658
Shonts, Theodore Perry. 24 742
Sibley, Hiram..... 24 775
Slocum, Joshua..... 25 99
Stevens, John F..... 25 637
Stone, Amasa..... 25 677
Stevens, Edwin Augustus 25 635
Stevens, John..... 25 555
25 636
Thomson, Frank..... 26 583
Train George Francis.. 26 765
Vanderbilt, Cornelius... 25 556
25 559
27 680
27 681
Vanderbilt, William Henry 27 681
Vail, Theodore Newton. 27 641
Vreeland, Herbert Harold 28 194
Watkins, John Elfreth. 29 107
Whitney, Asa..... 29 283
Whitney, William Collins 29 284
Williams, John Skelton. 29 343
Winan, Erastus..... 29 371
Winans, Ross..... 29 371
Worcester, Edwin Dean. 29 510

OTHER COUNTRIES

Ballin, Albert..... 3 99
Beeching, James..... 17 409
Berthoud, Ferdinand.... 3 581
Bianconi, Charles..... 3 611
Bowditch, Nathaniel.... 4 360
Bury, Sir George..... 5 70
Cabot, John..... 5 126
Cabot, Sebastian..... 5 127
Caboto, Giovanni 5 126
Cabrera, Pedro Alvarez. 5 127
Cabral, Pedro Alvarez.. 5 127
Ca Da Mosto, Luigi da. 5 131
Cada Mosto, Luigi da.. 5 131
Cano, Juan Sebastian del 5 512
Cooke, Sir William Fethergill 7 625
Cunard, Sir Samuel.... 8 301
Davis, John..... 13 355
Dias De Novaes, Bartholomeu 9 72
Dumont, D'Urville, Jules Sébastien César..... 9 399
Furness, Sir Christopher 12 181
Gabellini, Carlo..... 7 474
Galton, Douglas..... 5 577
Gioja, Flavio..... 12 661
Gómez, Estevan..... 13 41
Gooch, Sir Daniel..... 13 50
Hanno 13 66
Hoult, Joseph..... 14 443
Hudson, George..... 14 469
Jouffroy, Marquis de.... 25 554
McLeod, Archibald Angus 18 79
Macpherson, Sir David Lewis 18 89
Mann, Sir Donald D.... 18 227
Meares, John..... 18 479
Miller, Patrick..... 19 120
25 554
Murray, Lord George... 24 546
Pascal, Blaise..... 20 683
Pasley, Captain..... 24 546
Pinzon, Vincente Yañez. 22 105
Pinzon, Martin Alonzo.. 22 104
Popham, Sir Home..... 24 546
Pytheas 23 49
Ramsbottom, John..... 23 163
Reid, Robert Gillespie... 23 330
Reuter, Paul Julius..... 23 439
Schouten, William Cornelius 24 401
Selkirk, Alexander..... 24 543
Shaughnessy, Thomas George 24 663
Stephenson, George..... 23 144
25 621
Stephenson, Robert..... 25 621
Symington, William..... 25 554
Tasman, Abel Janssen (Janszen, Janzoon) .. 26 279
Van Horne, Sir William Cornelius 27 672
Watkin, Sir Edward William 29 107
White, Sir William Henry 29 269

TRAVEL AND EXPLORATION

General	Vol.	Page
Africa, exploration in...	1	218
	12	408
	12	410
African Association.....	12	409
Alaska, exploration in..	1	319
	12	412
Alpenstock	19	530
Alpine climbing.....	19	529
Alpine clubs.....	1	438
Amazon River, discovery of	1	468
America, discovery and colonization of....	1	491
exploration in.....	10	645
	12	409
American frontier.....	27	378
American West.....	27	379
Andes and the Amazon.	1	667
Antarctic exploration..	2	11
	12	412
Appalachian Mountain Club	2	72
Arabia, modern explorations in.....	2	120
Arctic regions, exploration in.....	2	187
	12	409
Argentine explorations..	2	201
Around-the-World records	2	324
Asiatic explorations....	12	409
Atlantic Coast plain, exploration in.....	27	376
Australia, discovery and early history.....	2	570
Benue River, exploration of	3	529
Black Hills survey.....	26	100
Bonneville expedition...	26	99
Caravansary	16	389
Central Africa, explorations in.....	12	411
Central Asia, explorations in.....	12	411
Challenger expedition..	2	11
Climbing records.....	19	529
Congo, explorations in.	12	410
Cook's expedition.....	22	332
Deep-sea exploration...	8	577
Discovery, The, 1602....	9	155
Dragoman	9	294
Exploration in America.	10	645
First overland journey around the world....	25	27
Franz-Josef Land, discovery of.....	12	412
Geographical conquests.	12	408
Geographical societies..	12	412
Geographical Society, American	12	413
National	12	408
of America	12	418
of Baltimore	12	413
of Philadelphia.....	12	413
Royal	12	413
Geographical Survey, United States.....	12	418
Geography, history of..	12	413

General — cont'd	Vol.	Page
Greely (A. W.'s), expedition	13	421
Greenland, first crossing of ice cap.....	12	412
Hakluyt Society.....	13	629
Half Moon, The.....	14	469
Harriman Alaska expedition	13	723
Hassler expedition.....	13	750
Himalayas, climbing of.	19	529
Holm-Nestorian expedition	14	821
Hudson Bay Company..	1	493
	10	649
Indian country, American, exploration and travel in.....	27	378
Itinerarium	15	558
Itinerary	15	558
Jeanette expedition.....	15	766
Jesuit Relations and allied documents.....	16	36
Jews, The.....	16	83
Karakoram, exploration of	12	412
Khan	16	389
Knights of the Golden Horseshoe	10	647
Kongo, explorations in.	12	410
Labrador, explorations in	12	412
Lady Franklin Arctic expedition	4	407
Lewis and Clark expedition	17	335
	19	392
	26	99
Mountain climbing.....	19	529
accidents	19	530
Mountaineering clubs...	19	529
National Geographic magazine	12	408
National Geographic Society.....	12	408
Nile, exploration of.....	12	410
North Pole, discovery of	12	412
	22	294
Northwestern Company.	10	649
Northwest Passage.....	5	91
	12	409
Ohio Company.....	10	648
Oriental research.....	20	794
Pacific railroads, construction of.....	26	100
Phœnician expedition of 7th century.....	12	413
Pike's expeditions.....	26	99
Polar research.....	22	291
Protestant Reformation and its results in exploration	25	56
Reclamation service surveys	26	101
Rio Theodoro (Rio Téodoro)	23	534
Sea of Darkness.....	1	491
Sixteenth century exploration	25	56

General — cont'd	Vol.	Page
Society Islands.....	25	206
South African explorations	12	410
South American exploration	12	409
South Pole.....	4	264
	12	412
discovery of.....	22	295
Thirteenth century, famous travelers of.....	26	561
Twentieth Century exploration	27	225
Ubangi	27	249
United States, peopling of	27	339
Upper Nile, exploration of	12	411
Victoria Land.....	28	75
Victoria Land, South...	28	75
Voyageur	28	194
Watauga route.....	27	377
Westward movement, American	27	375
Wheeler survey.....	26	100
Wilkes exploring.....	2	459
	19	620
World, first overland journey around.....	25	27
See also History.		

Biographies

UNITED STATES

	Vol.	Page
Argall, Samuel.....	2	194
Astor, John Jacob.....	10	649
Baldwin, Evelyn Briggs	3	76
Barkley, Charles William	3	256
Barlowe, Arthur.....	3	259
Bartlett, Robert A.....	22	294
Bering	1	492
Blakeslee, George Hubbard	4	58
Bliss, Frederick Jones..	4	88
Bliss, Porter Cornelius.	4	88
Bonneville, Capt. B. L. E.	10	650
Borup, George.....	22	294
Brainard, David Legge..	4	407
Bridger, James.....	4	527
Bridgman, Herbert Lawrence	4	532
Brower, Jacob Vradenburg	4	602
Browne, John Ross.....	4	614
Brownell, Clarence Ludlow	4	617
Bryant, Henry Grier....	4	647
Cabot	1	492
Carson, Kit.....	10	650
Carver, Jonathan.....	5	689
	10	649
Chaille-Long, Charles...	6	244
Chanler, William Astor.	6	288
Charlevoix, Pierre François Xavier de.....	6	333
Charnay, Claude Joseph Désiré	6	335
Church, George Earl...	6	653

Biographies — cont'd	Vol.	Page
Clark, William	4	332
Comettant, Oscar	7	361
Cook, Frederick Albert	7	621
Danenhower, John	8	450
Davidson, George	8	504
Davidson, James Wheeler	8	504
Dellenbaugh, Frederick Samuel	8	624
De Long, George Washington	8	624
	22	292
Du Chaillu, Paul Belloni	9	377
Fiala, Anthony	11	164
Frémont, John C	10	650
Gell, William Edgar	12	359
Gist, Christopher	10	648
Gray, Robert	10	648
	13	166
Gregg, Josiah	13	442
Greely, Adolphus Washington	13	421
	22	292
Green, Fitzhugh	22	294
Grinnell, Henry	13	480
Grosvenor, Gilbert Hovey	13	489
Gunnison, John W	13	553
Hall, Charles Francis	13	640
Hayes, Isaac Israel	14	17
	22	292
Henry, Alexander	14	105
Henson, Matthew	22	293
	22	294
Holmes, E(lias) Burton	14	321
Hovey, Edmund O	22	294
Hubbard, Leonidas, Jr.	14	464
Huntington, Ellsworth	14	518
Jarves, James Jackson	15	749
Johnson, R. E	10	650
Judson, Adoniram	16	236
	16	289
Kane, Elisha Kent	22	291
Keen, Dora	16	333
Kendrick, John	16	352
Kennan, George	16	354
Knox, Thomas Wallace	16	497
Ledyard, John	17	216
Lewis, Meriwether	4	332
	10	649
	17	335
Lockwood, James Booth	17	564
	22	292
Long, Stephen H	10	650
Lynch, William Francis	17	777
MacMillan, Donald B	22	294
Marvin, Ross G	22	294
Mayo, William	10	648
Melville, George W	22	292
Morton, William	22	291
Muir, John	19	550
Ogden, Herbert Gouverneur	20	604
Palmer, Nathaniel Brown	21	213
Parker, Herschell Clifford	21	327
Parker, Samuel	10	650
Pavy, Octave	22	292
Peary, Robert Edwin	21	458
	22	291
	22	292
Peck, Annie Smith	21	462
Peters, William John	21	664
Pike, Zebulon Montgomery	10	649
Powell, Maj. J. W	10	651
Pratt, Daniel	22	512
Rainey, Paul J	23	186
Rockhill, William Woodville	23	600

Biographies — cont'd	Vol.	Page
Roosevelt, Theodore	23	534
Schwatka, Frederick	24	410
Stephens, John Lloyd	25	620
Stoddard, John Lawson	25	665
Tyson, George Edgar	27	248
Vincent, Frank	28	96
Walker, Thomas	10	648
Washington, George	10	648
Wellman, Walter	29	184
Weston, Edward Payson	29	226
Wood, James	10	648
Workman, Fanny Bullock	29	520

GREAT BRITAIN

Biographies — cont'd	Vol.	Page
Abbadie, Antoine Thomson	1	9
Ambler, James Markham Marshall	1	472
Armitage, Albert H	22	293
Atkinson, Thomas Witlam	2	501
Back, George	3	17
Baffin, William	3	37
Baikie, William Balfour	3	49
Baines, Thomas	3	55
Baker, Sir Samuel White	3	61
Barrow, Sir John	3	283
Barth, Heinrich	3	288
Beke, Charles Tilstone	3	451
Bell, John	3	475
Bent, James Theodore	3	524
Bishop, Isabella	4	13
Bland, John Otway Percy	4	61
Bonwick, James	4	223
Boorde, Andrew	4	249
Bowdich, Thomas Edward	4	359
Borde, Andrew	4	249
Borrow, George	4	283
Brown, Robert	4	611
Browne, William George	4	617
Bruce, James	4	625
Bruce, William Speirs	4	626
Bryden, Henry Anderson	4	650
Buchan, David	4	656
Buchanan, Francis	4	657
Buckingham, James Silk	4	666
Burckhardt, John Lewis	5	33
Burke, Robert O'Hara	5	48
Burrough, Stephen	5	66
Burton, Sir Richard Francis	5	69
Button, Sir Thomas	5	91
	9	155
Cabot, John	10	645
Cabot, Sebastian	2	201
	10	645
	14	578
Cadell, Francis	5	132
Cameron, Verney Lovett	5	264
Campbell, Robert	5	280
Cameron, Agnes Deans	5	262
Cameron, Verney Lovett	5	264
Candish, Sir Thomas	6	150
Cavendish, Sir Thomas	6	150
Chancellor, Richard	6	277
Chesney, Francis Rawdon	6	424
Clapperton, Hugh	7	33
Colquhoun, Archibald Ross	7	332
Conway, Sir William Martin	7	618
Cook, James	7	621
Cook, Thomas	7	623

Biographies — cont'd	Vol.	Page
Cornwallis, Kinahan	7	716
Coryat, Thomas	8	30
Coxe, William	8	141
Crogham, George	10	648
Cuming, Sir Alexander	10	648
Curwood, James Oliver	8	331
Dampier, William	8	432
Davis, John	1	493
	8	512
Decle, Lionel	8	566
Denham, Dixon	8	677
De Windt, Harry	9	48
Dixie, Lady Florence	9	209
Dollier De Casson	9	236
Doughty, Charles Montague	9	277
Drake, Sir Francis	1	492
	10	648
Dunraven, Windham Thomas Wyndham-Quin	9	408
Edgcumbe, Sir Edward Robert Pearce	9	582
Ellis, Mina A	10	257
Elton, James Frederick	10	267
Evans, Edward Radcliffe Garth Russell	10	591
Eyre, Edward John	10	684
Feilden, Henry Wemyss	11	97
Flinders, Matthew	11	356
Forbes, Henry Ogg	11	460
Ford, Richard	11	466
Fox, Luke	11	564
Franklin, Sir John	2	570
Frobisher, Sir Martin	12	114
Gell, Sir William	12	362
Gilbert, Sir Humphrey	12	649
Gosnold, Bartholomew	13	69
Hakluyt, Richard	13	629
Hare, Augustus John Cuthbert	13	706
Harmsworth, Alfred C	22	393
Head, Sir George	14	25
Hearne, Samuel	14	36
Hudson, Henry	1	493
	9	155
	10	646
	14	469
Inglefield, Edward Augustus	15	131
Jackson, Frederick George	15	578
	22	293
Johnston, Sir Harry Hamilton	16	185
Josselyn, John	16	214
Kingsley, Mary H	16	447
Knox, Robert	16	497
Laing, Alexander Gordon	16	653
Lambert, John	16	673
Lander, Richard Lemon	16	700
Landor, A. Henry Savage	16	703
Le Blond, Elizabeth Alice Frances	17	161
Leichardt, Friedrich Wilhelm Ludwig	17	267
Livingstone, David	17	543
MacGregor, John	18	50
Mackenzie, Sir Alexander	18	67
	10	649
Mandeville, Sir John	18	206
Markham, Albert Hastings	18	299
	22	292
Markham, Sir Clements Robert	18	299
Mawson, Sir Douglas	18	454
	2	12

Biographies — cont'd	Vol.	Page
Mitchell, Sir Thomas Livingstone	19	268
Moorcroft, William	19	428
Morier, James Justinian	19	459
Morrison, George Ernest	19	480
Nares, Sir George Strong	19	705
Nares, George	22	292
Newport, Christopher	20	277
Ogden, Peter Skene	20	605
Oliphant, Lawrence	20	662
Orléans, Henri	20	815
Pacock, Richard	22	270
Park, Mungo	21	325
Parry, William Edward	21	346
Price, Julius Mendes	22	567
Rae, John	23	131
Reade, William Winwood	23	247
Richardson, Sir John	23	494
Ross, James Clark	23	703
	26	448
	28	75
Ross, John	23	704
Scoresby, William	24	426
Scott, Robert F.	2	12
	24	441
Shackleton, Sir Ernest	2	12
	22	294
	24	635
Simpson, Sir George	25	27
Smith, Benjamin Leigh	25	113
Smith, Capt. John	10	646
	25	122
Speke, John Hanning	25	385
Spotswood, Governor	10	647
Stanley, Sir Henry M.	4	445
	25	484
Stefanson, Vilhjalmur	22	295
	25	609
Stuart, John McDouall	2	571
	25	747
Sturt, Sir Charles	25	758
Thompson, David	26	577
Thomson, Joseph	26	584
Tyrrell, James Williams	27	247
Tyrrell, Joseph Burr	27	247
Vancouver, George	10	648
	27	677
Vérendrye, Varennes de la	10	648
Vivian, Herbert	28	156
Wallace, Alfred Russel	28	235
Waterton, Charles	29	80
Weymouth, George	9	155
Wheeler, Arthur Oliver	29	250
Whymper, Edward	29	288
Wiggins, Joseph	29	298
Wilkes, Charles	14	578
	29	319
Willoughby, Sir Hugh	29	350
Wills, William John	29	352
Wilson, Edward A.	29	357
Young, Arthur	29	648
Young, Sir Frederick	29	650

FRANCE

Biographies — cont'd	Vol.	Page
Abbadie, Arnaud Michel d'	1	9
Allouez, Claude	1	424
Bellot, Joseph René	3	490
Bernier, François	3	574
Binger, Louis Gustave	3	715
Bonvalot, Pierre Gabriel	4	222
Bory De Saint Vincent, Jean Baptiste George Marie	4	284
Cailliaud, Frédéric	5	146
Cailliaud, René	5	146
Cartier, Jacques	5	685
	10	646
Champlain, Samuel de	6	273
Charcot, Jean Baptiste Etienne Auguste	6	303
Chardin, Sir John	6	304
David, Armand	8	500
De Leon, Ponce	1	492
	10	645
Douls, Camille	9	282
Enambuc, or Esnambuc, Pierre,	10	311
Entrecasteaux, Joseph Antoine Bruni d'	10	404
Esnambuc, Pierre Belain d'	10	500
Garnier, Marie Joseph François	12	296
Gérard, Cécile Jules Basile	12	493
Grillet, Jean	13	473
Groseillers, Médard Chouart	13	487
Halévy, Joseph	13	635
Janssen, Pierre Jules Cesar	15	617
Joliet, Louis	16	191
Jontel, Henri	16	223
Kerguelen - Trémarer, Yves Joseph de	16	588
Labat, Jean Baptiste	16	588
La Condamine, Charles Marie de	16	569
La Hontan, Armand Louis	16	576
La Pérouse, Jean François de Galaup de	16	579
La Salle, René Robert Cavalier, Sieur de	16	582
La Salle, Robert Cavalier de	10	647
Lejean, Guillaume	17	274
Le Sueur, Pierre	10	647
Marquette, Jacques	10	646
	18	308
Michaux, André	19	14
Michaux, François André	19	14
Nicollet, J. N.	10	650
Pratz, Le Page du	22	513
Radiguet, Maximilien René	23	121
Roberval, Jean François de la Roque	23	576
Tavernier, Jean Baptiste	26	286

GERMANY

Biographies — cont'd	Vol.	Page
Baedeker, Karl	3	36
Bessels, Emil	3	587
Bibra, Ernst, Baron von	3	678
Brehm, Alfred Edmund	4	462
Cluver, or Cluverius, Philipp	7	140
Brugsch, Heinrich Karl	4	629
Decken, Karl Klaus von der	8	560
Denhardt (Denhart), Clemens	8	677
Denhardt, Gustave	8	677
Ehlers, Otto Ehrenfried	10	24
Engel, Franz	10	335
Falkenstein, Julius August Ferdinand	10	730
Fallmerayer, Jacob Philipp	10	734
Federmann, Nikolaus	11	88
Fröbel, Julius	12	114
Güssfeldt, Paul	13	576
Hedin, Sven Anders	14	63
Humboldt, Friedrich Heinrich Alexander	14	489
Kiepert, Heinrich	16	408
Kohl, Johann Georg	16	508
Littmann, Enno	17	525
Meyer, Hans	19	2
Möllhausen, Baldwin	19	327
Niebuhr, Karsten	20	333
Nindemann, Wilhelm Friedrich Carl	20	350
Pallas, Peter Simon	21	209
Peters, Karl	21	668
Rohles, Friedrich Gerhard	23	632
Schweinfurth, Georg August	24	411
Vogel, Eduard	28	163
Wagner, Moritz	28	209
Wissmann, Hermann von	29	429

ITALY

Biographies — cont'd	Vol.	Page
Abruzzi, Duke of the, Prince L. A. G. M. F. F.	1	51
Amerigo Vespucci	1	492
Balbi, Gasparo	3	72
Benzoni, Girolamo	3	533
Cagni, Umberto	22	293
Canot, Theodore	5	526
Casati, Gaetano	5	695
Columbus, Bartholomew	7	339
Columbus, Christopher	1	491
	7	339
Columbus, Diego, or Giacomo	7	342
Filippi, Filippo de	11	209
Marignolli, Giovanni de'	18	287
Niza, Marcos de	20	380
Piaggia, Carlo	22	52
Polo, Marco	22	325
	26	561
Tonti (Tonty), Henri de	26	690
Valle, Pietro della	27	650
Verrazano, Giovanni	1	493
	10	646
Zeno, Antonio	29	699
Zeno, Nicolò	29	699

SPAIN

Biographies — cont'd	Vol.	Page
Acosta, Joaquin	1	97
Acuña, Christoval de	1	113
Balbo, Vasco Muñez	3	73
Cabeza De Vaca, Alvar Nuñez	5	117
Cabrillo, Juan	10	648
Columbus, Ferdinand	7	342
Cordova, Francisco Hernandez de	7	690
Coronado, Francisco Vasquez de	7	718
	23	100
Crevaux, Jules Nicolas	8	189
de Verrazzano, Giovanni	10	646
de Coronado, Vasquez	10	646
De Narvaez, Pánfilo	10	645
de Niza Marcos	10	646
de Oñate, Juan	10	646
De Lmet, Peter John	9	11
De Soto, Hernando	9	13
	10	645
de Urdinola, Francisco	10	647
Dias Del Castillo, Bernardo	9	75
Dias De Pineda	9	76
Dias, Miguel	9	74
d'Iberville, Pierre Le Moyne	10	647
Diego, Garcia	1	492
Gali, Francisco	12	236
Grijalva, Juan de	16	473
Labezares, Guido de	16	589
	17	119
Lavezaris, Guido de	17	119
Mendoza, Pedro de	18	627

Biographies — cont'd	Vol.	Page
Menendez de Avilés, Pedro	10	646
Niño, Pedro Alonso	20	362
Núñez, Cabeza de Vaca, Alvar	20	499
Ojéda, Alonzo de	20	632
Oñate, Juan de	20	688
Orellana, Francisco de	20	785
Pizarro, Francisco	22	139
Vizcaino, Sebastian	28	157
Ulloa, Francisco de	27	263
Ximénez. De Quesada, Gonzalo	29	590
Zuniga Y Azevedo, Gaspar de	29	740
OTHER COUNTRIES		
Amundsen, Roald	1	595
	2	212
	22	295
Astrup, Eivind	2	483
Baranoff, Alexander Andreevich	3	228
Barentz, William	3	246
Beaurepaire-Rohan, Henriques de	3	396
Bellingshausen, Fabian Gottlieb von	3	488
Belzoni, Giovanni Battista	3	496
Beniowsky, Moritz August von	3	516
Benjamin of Tudela	3	518
Bering, Vitus	3	551
	10	648
Beurmann, Karl Moritz von	3	597

Biographies — cont'd	Vol.	Page
Borchgrevink, Carsten Egeberg	4	264
Brazza-Savorgnan, Pierre Paul François Camille	4	444
Brito Capello, Hermenegildo Augusto de	4	565
Cam, Diogo	5	242
Cambier, Ernest	5	245
Cao, Diogo	5	242
Corterreal, Gasper	8	26
Dhanis, François	9	52
Dickson, Baron Oskar von	9	85
Emin Pasha	10	294
Fa Hien	10	711
Fuca, Juan de	12	141
Gama, Vasco da	12	259
Garcia, Diego	2	201
	12	280
Garde, Thomas William	12	281
Gele, Alphonso van	12	361
Grijalva, Juan de	13	473
Hasselquist, Fredrick	13	750
Holm, Frits (Vilhelm)	14	320
Holub, Emil	14	325
Houtman, Cornelis	14	451
Houtman, Frederick	14	451
Ibn Batuta, Abu Abdullah Mohammed	14	617
Imhoffer, Gustav Melchior	14	708
Junker, Wilhelm	16	251
Kaulbars, Alexander	16	321
Kotzebue, Otto von	16	535
Lenz, Oskar	17	292

Biographies — cont'd	Vol.	Page
Leo Africanus	17	298
Lütke, Feodor Petrovitch	17	762
Mendez-Pinto, Fernao	18	626
Mendoza, Pedro de	2	202
Mikkelsen, Ejnar	19	52
	22	295
Mobangi	27	249
Munzinger, Werner	19	598
Nachtigal, Gustav	19	678
Nain Sing	19	684
Nansen, Fridtjof	19	689
	22	293
Nordenskiöld, Adolf Erik, Baron	20	398
Nordenskiöld, Gustav	20	398
Nordenskiöld, Nils Otto	20	398
Pausanias	21	426
Payer, Julius von	21	432
Pfeiffer, Ida Laura Reyer	21	701
Pinto, Alexandre Alberto da Rocha Sérpa	22	104
Prejevalski, Nicholas	22	619
Rasmussen, Knud Johan Victor	23	220
Reyes, Rafael	23	450
Rink, Hinrich Johannes	23	531
Solis, Juan de	2	201
Serdrup, Otto	22	293
	26	105
Stefánsson, Vilhjálmur	22	295
	25	609
Teleki, Samuel	26	861
Toll, Eduard, Baron von	26	675
Vambéry, Arminius	27	661

WEIGHTS AND MEASURES

General	Vol.	Page
Absolute atmosphere	27	566
Acre	29	166
Actinometry	1	107
Alcoholometry	1	350
Ampere	10	165
	10	167
Angstroem unit	29	163
Apothecaries' weights	29	169
Area, units of	29	164
As	2	373
Astronomical unit	29	166
Atomic weights, table	2	513
Australia, weights and measures of	2	623
Avoirdupois	2	680
pound	27	565
system	29	169
Bahar	3	46
Barleycorn	29	165
Barre	3	46
Barrel	3	276
	29	168
Bathmetry	3	339

General — cont'd	Vol.	Page
Boll	4	191
Bolt	29	165
Bushel	5	73
	29	168
Cable length	29	166
Calorie	5	230
Calorimetry	5	232
Calory	5	230
Candy	5	498
Carat	29	170
Catty	6	124
Centimeter-gram-second system	27	565
Centner	6	201
Chœnix	6	582
Chopin	6	590
Cord foot	29	167
Cord of masonry	29	167
Cord of wood	29	167
Costa Rica, weights and measures	8	44
Cube, volume of	27	567
Cubic foot	29	166

General — cont'd	Vol.	Page
Cubic inch	29	166
Cubic mile	29	166
Cubic yard	29	166
Degree	29	166
Degrees of latitude and longitude	8	600
Degrees, measurement of	8	599
Denmark, weights and measures	8	681
Dimensions	27	567
Dirhem	9	145
Drachma	9	290
Dramm	9	145
Drop	29	167
Dry measures	29	168
Dyne	27	565
Egypt, weights and measures	10	6
Electrical and magnetic units	27	566
Electrical units, practical	27	566
Electromagnetic units	27	566

General — cont'd	Vol.	Page
Electrostatic units	27	566
Ell (English)	10	251
	29	165
Engineer's chain	29	165
Engineer's link	29	165
Ephah	10	412
Erg	27	565
Farad	10	168
	11	16
Fathom	29	165
Finger	29	165
breadth	29	165
Fluid dram	29	167
Fluid ounce	29	168
Foot	11	454
	27	565
	29	165
pound	11	455
	27	565
Force de Cheval	11	463
Foreign countries, weights and measures of	29	170
Furlong	29	166
Gallon (liquid)	29	167
Grain (Troy)	29	169
Gram	18	733
Gramme	13	120
	25	368
Greece, weights and measures	13	377
Gunter's chain	29	165
Hand	29	165
Hank	29	166
Hogshead	14	312
	29	168
Horse power	10	351
Hundredweight	29	169
Inch	14	740
	29	164
India, weights and measures	15	8
Kandy	5	498
Kilogram	16	414
	27	565
	29	169
Kilogramme	16	414
	27	565
	29	169
Kiloliter	16	414
Kilolitre	16	414
Kilowatt hour	10	166
Land measures, South African	27	12
League	17	176
	29	166
Length, standards of	25	480
Length, units of	29	164
Line	29	165
Liquid measure	29	167
United States	29	167
Liter	18	733
Maneh	24	679
Mass, standards of	25	480
unit of	25	368
Measure	18	480
dry	29	168
in music	18	480
lineal	18	480
line of	18	480
liquid	29	167
of angles	18	480
of magnification	18	480
of ratio	18	480
unit of	18	480
Measurement, builder's	18	481
Megadyne	27	565
Megaerg	27	566
Megalerg	27	566
Metre	18	729
	18	733

General — cont'd	Vol.	Page
Metric system	18	729
advantages of	18	732
and equivalents, table	18	734
capacity	18	734
length	18	734
mass or weight	18	734
proposed adoption by United States and Great Britain	18	732
simplicity of	18	733
Metrology	29	163
Microfarad	27	566
Micron	19	33
Mil	19	93
	29	165
Mile	19	56
	29	165
land	29	165
nautical	29	166
Milligram	19	126
Miners' inch	29	165
Morocco, weights and measures	19	468
Nail	29	165
Netherlands, weights and measures	20	90
Nicaragua, weights and measures	20	304
Norway, weights and measures	20	438
Ohm	20	624
Ounce	21	52
Pace	21	87
	29	165
Palm	29	165
Parasang	21	287
Pennyweight	29	169
Perch	21	571
	29	165
	29	167
Peru, weights and measures	21	646
Picul	22	71
Pint	22	104
Pipe	22	107
Point	29	165
Pole	21	571
	29	165
Pood	22	353
Portugal, weights and measures	22	411
Pound	22	472
avoirdupois	22	470
Troy	22	472
Poundal	27	565
Proof gallon	29	167
Pud	22	353
Puncheon	23	16
Quarter	29	165
Quintal	23	97
Radian	19	94
Rod	21	571
	23	618
	29	165
Sack	7	398
Second	24	511
	27	565
Seer	24	530
Shekel	24	679
Ships, measurement of	18	481
Sicca	24	777
Skein	29	166
Soundings	25	272
South African land measures	27	12
Spain, weights and measures	25	329
Span	25	342
Stadium	25	468
Standards, bureau of	25	480

General — cont'd	Vol.	Page
Statute	29	165
Stere	25	623
Stick (timber)	29	167
Stone	25	679
Streams, measurement of	18	481
Surveyors' chain	29	165
Surveyors' link	29	165
Surveyors' measure	29	166
Sweden, weights and measures	26	116
Talent	26	223
Tally	26	230
Thermometry	26	542
Time, standards of	25	480
Toise	26	669
Ton	26	683
commercial	29	169
long	29	169
short	29	169
Township	29	166
Troy ounce	29	169
Troy weights	29	169
Tun	27	144
Turkey, weights and measures	27	185
Ullage	7	398
Units of measurement	27	565
Units, secondary	27	565
Unit standards	29	163
Uruguay, weights and measures	27	605
Verst	28	40
Volt	10	167
	10	168
Water inch	29	21
Watt	10	167
	10	168
	29	112
hour	10	167
Weights and measures	29	162
classification of	29	162
of foreign countries	29	170
units of, in the United States	29	164
Werst	28	40
Winchester bushel	29	168
Wine gallon	29	167
Wine measures	29	386
Wood measurement	29	167
Yard	29	614

Instruments

Accelographs	1	67
Accelometer	1	68
Achnometer	2	480
	21	798
Acoumeter	1	97
Actmograph	1	107
Actinometer	1	107
Aeroklinoscope	1	180
Aethriscope	1	203
Air-thermometer	1	290
Alcoholometer	14	582
Altiscope	1	451
Ammeter	1	589
Amperemeter	1	589
Anemometer	1	678
Anemoscope	1	680
Aneroid barometer	1	680
Apomecometer	2	67
Areometer	14	582
Astatic needle	2	443
Atmidometer	2	507
Atmograph	2	507
Atmometer	2	507
Atwood's machine	18	520
Auxanometer	2	670
Balance	3	66
lever	3	66
precision	3	66

Instruments — cont'd	Vol.	Page
torsion	26	712
Ballistic galvanometer	3	100
Ballistic pendulum	3	101
Barometer	3	271
	15	281
aneroid	1	680
Bathometer	3	337
Bolometer	4	195
Bourdon	4	349
gauge	18	232
Calorimeter, respiration	5	230
	13	707
Cathetometer	6	63
Ceramograph	6	223
Chronograph	6	644
Benson's	6	645
Chronometer	6	642
Chronoscope	6	644
Hipp	6	645
Noble	6	644
Schultz	6	644
Clinometer	7	113
Colorimeter	7	326
Coulometer	8	94
Cyanometer	8	350
Cyathometer	8	351
Cyclometer	8	362
Diffusiometer	9	107
Dip circle	9	138
Dipping needle	9	141
Drosometer	9	340
Ductilemeter	9	381
Dynagraph	9	455
Dynameter	9	455
	9	461
Earthquake, instruments for recording	9	496
Electric measuring instruments	10	159
Electric balance	10	94
Electrometer	10	199
	15	281
Eriometer	10	478
Eudiometer	10	564
Extensometers	25	730
Galactometer	16	640
Galvanometer	12	254
moving coil	12	255
Thomson	12	254
Gasometer	12	330
Gauge	12	339
	15	209
Gnomon	12	736
Goinometer	13	46
Graduation, centigrade	26	538
Fahrenheit	26	538
Reaumur	26	538
Gyro-compass	13	596
	13	599
Gyroscope	13	596
Hour glass	14	443
Hydrodeik	14	594
Hydrograph, Richmond's	14	594
Hydrometer	14	581
chemical	14	582
constant volume	14	581
constant weight	14	581
Nicholson's	14	581
Hygrometer	14	594
Mason's	14	594
Regnault's	14	594
Hypometer	14	610
Inclination compass	9	138
	9	141
Inclinometer	9	138
Interferometer	25	876
Jolly balance	16	192
Lactometer	14	582
	16	640
Lysimeter	17	787
Manometer	18	231
Measuring instruments	18	61
Meter, current	8	313
Micrometer	19	33
Microtasimeter	19	38
Nilometer	20	349
Odometer	20	585
Opthalometer	20	708
Oscillograph	21	18
Pedometer	21	465
Phonometer	21	793
Phosphoroscope	21	795
Photometer	22	7
	22	8
	22	13
Bonquer's	22	10
Lummer-Brodhun	22	12
Matthew's integrating	22	13
Ritchie's	22	10
Rumford	22	8
Shadon	22	8
	22	10
Pyenometer	14	582
Planimeter	22	151
Pluviometer	23	180
Power, measurement of	9	461
Psychrometer	14	594
	22	745
Pycnometer	14	582
Pyrheliometer	2	480
	23	43
Pyrometer	23	44
Wedgwood	29	154
Radiometer	23	126
	27	637
Radio micrometer	4	195
Rain gauge	23	180
Rheostat	23	456
Saccharometer	24	87
Salinometer	14	582
Scales	24	348
computing	7	453
Sclerometer	24	424
Seismograph	24	533
Seismometer	24	533
Sextant	24	629
Spectrometer	25	372
Speedometer	25	885
Sun-dial	26	27
Sympiesometer	26	169
Telemeter	26	361
Thermograph	26	537
Thermometer	26	537
air	1	290
alcohol	26	540
clinical	26	540
deep sea	26	541
dew point	26	541
differential	26	541
gas	26	540
maximum and minimum	26	540
metallic	26	541
platinum resistance	26	542
radiation	26	541
registering	26	541
upsetting	26	541
weight	26	541
wet bulb	26	541
Thermophone	26	546
Thermoscope	26	546
Thermostat	26	546
Torsion balance	26	712
Urinometer	14	582
	27	597
Velocimeter	27	724
Voltmeter	10	167
Volumeter	14	582
Volumometer	28	179
Water meter	29	23
Weighing machines	29	160
Wire gauge	29	413
Zenith tube	29	699

General — cont'd	Vol.	Page
Electrostatic units	27	566
Ell (English)	10	251
	29	165
Engineer's chain	29	165
Engineer's link	29	165
Ephah	10	412
Erg	27	565
Farad	10	168
	11	16
Fathom	29	165
Finger	29	165
breadth	29	165
Fluid dram	29	167
Fluid ounce	29	168
Foot	11	454
	27	565
	29	165
pound	11	455
	27	565
Force de Cheval	11	463
Foreign countries, weights and measures of	29	170
Furlong	29	166
Gallon (liquid)	29	167
Grain (Troy)	29	169
Gram	18	733
Gramme	13	120
	25	368
Greece, weights and measures	13	377
Gunter's chain	29	165
Hand	29	165
Hank	29	166
Hogshead	14	312
	29	168
Horse power	10	351
Hundredweight	29	169
Inch	14	740
	29	164
India, weights and measures	15	8
Kandy	5	498
Kilogram	16	414
	27	565
	29	169
Kilogramme	16	414
	27	565
	29	169
Kiloliter	16	414
Kilolitre	16	414
Kilowatt hour	10	166
Land measures, South African	27	12
League	17	176
	29	166
Length, standards of	25	489
Length, units of	29	164
Line	29	165
Liquid measure	29	167
United States	29	167
Liter	18	733
Maneh	24	679
Mass, standards of	25	480
unit of	25	368
Measure	18	480
dry	29	168
in music	18	480
lineal	18	480
line of	18	480
liquid	29	167
of angles	18	480
of magnification	18	480
of ratio	18	480
unit of	18	480
Measurement, builder's	18	481
Megadyne	27	565
Megaerg	27	566
Megalerg	27	566
Metre	18	729
	18	733

General — cont'd	Vol.	Page
Metric system	18	729
advantages of	18	732
and equivalents, table	18	734
capacity	18	734
length	18	734
mass or weight	18	734
proposed adoption by United States and Great Britain	18	732
simplicity of	18	733
Metrology	29	163
Microfarad	27	566
Micron	19	33
Mil	19	98
	29	165
Mile	19	56
	29	165
land	29	165
nautical	29	166
Milligram	19	126
Miners' inch	29	165
Morocco, weights and measures	19	468
Nail	29	165
Netherlands, weights and measures	20	90
Nicaragua, weights and measures	20	304
Norway, weights and measures	20	438
Ohm	20	624
Ounce	21	52
Pace	21	87
	29	165
Palm	29	165
Parasang	21	287
Pennyweight	29	169
Perch	21	571
	29	165
	29	167
Peru, weights and measures	21	646
Picul	22	71
Pint	22	104
Pipe	22	107
Point	29	165
Pole	21	571
	29	165
Pood	22	353
Portugal, weights and measures	22	411
Pound	22	472
avoirdupois	22	470
Troy	22	472
Poundal	27	565
Proof gallon	29	167
Pud	22	353
Puncheon	23	16
Quarter	29	165
Quintal	23	97
Radian	19	94
Rod	21	571
	23	618
	29	165
Sack	7	398
Second	24	511
	27	565
Seer	24	530
Shekel	24	679
Ships, measurement of	18	481
Sicca	24	777
Skein	29	166
Soundings	25	272
South African land measures	27	12
Spain, weights and measures	25	329
Span	25	342
Stadium	25	468
Standards, bureau of	25	480

General — cont'd	Vol.	Page
Statute	29	165
Stere	25	623
Stick (timber)	29	167
Stone	25	679
Streams, measurement of	18	481
Surveyors' chain	29	165
Surveyors' link	29	165
Surveyors' measure	29	166
Sweden, weights and measures	26	116
Talent	26	223
Tally	26	230
Thermometry	26	542
Time, standards of	25	480
Toise	26	669
Ton	26	683
commercial	29	169
long	29	169
short	29	169
Township	29	166
Troy ounce	29	169
Troy weights	29	169
Tun	27	144
Turkey, weights and measures	27	185
Ullage	7	398
Units of measurement	27	565
Units, secondary	27	565
Unit standards	29	163
Uruguay, weights and measures	27	605
Verst	28	40
Volt	10	167
	10	168
Water inch	29	21
Watt	10	167
	10	168
	29	112
hour	10	167
Weights and measures	29	162
classification of	29	162
of foreign countries	29	170
units of, in the United States	29	164
Werst	28	40
Winchester bushel	29	168
Wine gallon	29	167
Wine measures	29	386
Wood measurement	29	167
Yard	29	614

Instruments

	Vol.	Page
Accelographs	1	67
Accelometer	1	68
Achnometer	2	480
	21	798
Acoumeter	1	97
Actmograph	1	107
Actinometer	1	107
Aeroklinoscope	1	180
Aethriscope	1	203
Air-thermometer	1	290
Alcoholometer	14	582
Altiscope	1	451
Ammeter	1	589
Amperemeter	1	589
Anemometer	1	678
Anemoscope	1	680
Aneroid barometer	1	680
Apomecometer	2	67
Areometer	14	582
Astatic needle	2	443
Atmidometer	2	507
Atmograph	2	507
Atmometer	2	507
Atwood's machine	18	520
Auxanometer	2	670
Balance	3	66
lever	3	66
precision	3	66

Instruments — cont'd	Vol.	Page
torsion	26	712
Ballistic galvanometer	3	100
Ballistic pendulum	3	101
Barometer	3	271
	15	281
aneroid	1	680
Bathometer	3	337
Bolometer	4	195
Bourdon	4	349
gauge	18	232
Calorimeter, respiration	5	230
	13	707
Cathetometer	6	63
Ceramograph	6	223
Chronograph	6	644
Benson's	6	645
Chronometer	6	642
Chronoscope	6	644
Hipp	6	645
Noble	6	644
Schultz	6	644
Clinometer	7	113
Colorimeter	7	326
Coulometer	8	94
Cyanometer	8	350
Cyathometer	8	351
Cyclometer	8	362
Diffusiometer	9	107
Dip circle	9	138
Dipping needle	9	141
Drosometer	9	340
Ductilemeter	9	381
Dynagraph	9	455
Dynameter	9	455
	9	461
Earthquake, instruments for recording	9	496
Electric measuring instruments	10	159
Electric balance	10	94
Electrometer	10	199
	15	281
Eriometer	10	478
Eudiometer	10	564
Extensometers	25	730
Galactometer	16	640
Galvanometer	12	254
moving coil	12	255
Thomson	12	254
Gasometer	12	330
Gauge	12	339
	15	209
Gnomon	12	736
Goinometer	13	46
Graduation, centigrade	26	538
Fahrenheit	26	538
Reaumur	26	638
Gyro-compass	13	596
	13	599
Gyroscope	13	596
Hour glass	14	443
Hydrodeik	14	594
Hydrograph, Richmond's	14	594
Hydrometer	14	581
chemical	14	582
constant volume	14	581
constant weight	14	581
Nicholson's	14	581
Hygrometer	14	594
Mason's	14	594
Regnault's	14	594
Hypometer	14	610
Inclination compass	9	138
	9	141
Inclinometer	9	138
Interferometer	25	376
Jolly balance	16	192
Lactometer	14	582
	16	640
Lysimeter	17	787
Manometer	18	231
Measuring instruments	18	61
Meter, current	8	313
Micrometer	19	33
Microtasimeter	19	38
Nilometer	20	349
Odometer	20	585
Opthalometer	20	708
Oscillograph	21	18
Pedometer	21	465
Phonometer	21	793
Phosphoroscope	21	795
Photometer	22	7
	22	8
	22	13
Bonquer's	22	10
Lummer-Brodhun	22	12
Matthew's integrating	22	13
Ritchie's	22	10
Rumford	22	8
Shadon	22	8
	22	10
Pyenometer	14	582
Planimeter	22	151
Pluviometer	23	180
Power, measurement of	9	461
Psychrometer	14	594
	22	745
Pycnometer	14	582
Pyrheliometer	2	480
	23	43
Pyrometer	23	44
Wedgwood	29	154
Radiometer	23	126
	27	637
Radio micrometer	4	195
Rain gauge	23	180
Rheostat	23	456
Saccharometer	24	87
Salinometer	14	582
Scales	24	348
computing	7	453
Sclerometer	24	424
Seismograph	24	533
Seismometer	24	533
Sextant	24	629
Spectrometer	25	372
Speedometer	25	385
Sun-dial	26	27
Sympiesometer	26	169
Telemeter	26	361
Thermograph	26	537
Thermometer	26	537
air	1	290
alcohol	26	540
clinical	26	540
deep sea	26	541
dew point	26	541
differential	26	541
gas	26	540
maximum and minimum	26	540
metallic	26	541
platinum resistance	26	542
radiation	26	541
registering	26	541
upsetting	26	541
weight	26	541
wet bulb	26	541
Thermophone	26	546
Thermoscope	26	546
Thermostat	26	546
Torsion balance	26	712
Urinometer	14	582
	27	597
Velocimeter	27	724
Voltmeter	10	167
Volumeter	14	582
Volumometer	28	179
Water meter	29	23
Weighing machines	29	160
Wire gauge	29	413
Zenith tube	29	699

WORLD WAR

General	Vol.	Page
Aboukir torpedoed	28	442
Aces	28	457
Adriatic, blockade of	28	446
Aerial mine	19	91
Aerial navigation, treaty stipulations regarding	28	565
Aerial operations at Chateau-Thierry	28	457
Aerial operations at Saint Mihiel	28	457
Aerial operations in Meuse-Argonne sector	28	457
Aerial operations of the war	28	451
Aeronautics, military	19	59
	19	86
Aeroplane	1	187
	19	62
Aerschot burned by Germans	28	298
African campaign	28	397
African troops at the front	28	306
Agadir crisis	28	262
Agnello Pass taken by Italians	28	393
Air clauses in peace treaties	28	606
Aircraft Board, United States	28	455
Aircraft gun	13	563
	13	566
Air fight over Dun-sur-Meuse	28	452
Air raids on London	19	61
	28	453
Air services, statistics of	28	456
Air squadrons in the war	28	456
Aisne, French attempts on German entrenchments	28	305
German retreat to	28	343
German stand at	28	305
heights attacked by French	28	335
second battle of	28	331
	28	341
to Chateau-Thierry	28	341
Albania after the war	28	644
Albania's economic problems due to the war	28	644
Albanians and the war	28	633
Aliens	1	401
in wartime	1	403
Allenstein occupied by Russians	28	362
	28	363
Allied agreements	28	494
Allied commanders-in-chief	28	496
Allied drive at Amiens, August, 1918	28	345
Allied Food Commission	28	511
Allied offensive of 1915	28	314
Allied offensive of July 18, 1918	28	343

General — cont'd	Vol.	Page
Allied restrictions on neutral trade	28	617
Allied War Commissions to the United States	1	420
Allied War Council	28	337
Alpine crests fall to Italians	28	387
Alsace-Lorraine, treaty stipulations regarding	28	531
Altkirk, occupation by French	28	298
Ambulance companies	1	474
Ambulance corps	1	476
America and World War	19	736
America protests to Britain	28	476
America sends first troops to France	28	347
America severs diplomatic relations with Germany	28	347
American aces	28	457
American activities in Belgium	28	503
American advance into Germany	28	503
American air casualties	28	457
American air force in the war	28	452
American army, assembling of first	23	493
educational work	28	512
period of organization	28	490
religious work in	28	511
Meuse-Argonne operations	28	500
second phase	28	501
third phase	28	502
Saint Mihiel operations	28	498
American attack at Saint Mihiel	28	350
American attack on Belleau Woods	28	349
American aviation	28	508
American Chemical Warfare Service	28	508
American civil administration of occupied territory	28	510
American co-ordination of supply at front	28	504
American debarkation ports in France	28	347
American divisions, employment of from March to September, 1918	28	497
American Engineer Corps, construction by	28	507
American engineers join in fighting at Amiens	28	338
American Expeditionary Forces in Europe, administration of	28	508
American fight in the Argonne Forests	28	350

General — cont'd	Vol.	Page
American front and line of communications	28	491
American Flying Corps, activities in Europe	27	552
personnel	27	552
American General Staff	28	491
American inspection, discipline	28	509
American Intelligence Department	28	493
American leaves and leave areas	28	511
American Liquidation Commission	28	511
American medical and sanitary conditions	28	508
American military justice	28	509
American military operations	28	494
American Motor Transport Corps	28	507
American munitions	28	508
American neutrality	27	365
	28	612
crisis of 1917	28	621
difficulties of	28	614
personal status	28	616
principles of	28	612
proclaimed	28	346
public announcement of	28	614
American ocean tonnage	28	505
American ordnance	28	508
American organization projects	28	490
American people, attitude of	28	612
American Provost Marshal General's Department	28	509
American psychology of the war	28	655
American purchasing agency	28	505
American Quartermaster Corps	28	507
American reclassification of personnel	28	506
American records, personnel and mail service	28	508
American Red Cross	19	738
	22	759
	23	279
American relation with Allies	28	511
American Relief Association, loans by	28	652
American remounts	28	506
American Renting, Requisition and Claims Service	28	507
American replacement of personnel	28	506
American Second Army, operations of	28	502

General — cont'd	Vol.	Page
American sector, January, 1918, map of	28	348
American Service of Supply	28	504
American Signal Corps	28	507
American societies engaged in welfare work	28	511
American tankers seized by British	28	476
American tanks	28	508
American Transportation Corps	28	507
American treatment of prisoners	28	599
American troops, expediting shipment of	28	494
in Italy	28	503
in Russia	28	503
in second battle of the Marne	28	344
launch first independent attack	28	346
near the Marne	28	342
placed at disposal of French	28	348
preparations for transmission to France	28	347
return of, to United States	28	503
sent to Cantigny	28	349
sent to France	28	347
sent to Italy	28	396
training of	28	492
American war casualties by States	28	653
American War Commission to Russia	1	567
American war relief expenditures	28	652
American welfare work	28	511
Americans break Brunhilde line	28	351
Americans break Freya line	28	351
Americans capture Blanc Mont	28	351
Americans cross the Meuse	29	354
Americans cut German line of communications through Metz and Luxemburg	28	354
Americans defeat Fourth Prussian Guard	28	344
Americans fight at Chateau-Thierry	28	349
Americans in Vladivostok	28	382
Americans take Binarville	28	352
Americans take Buzancy	28	354
Americans take Cantigny	28	349
Americans take Fismes	28	344
Americans take Montfaucon	28	351
Americans take Romange	28	353
Americans take Sedan	28	356
America's abandonment of her neutral policy	19	736
America's entry into war	28	482
Amiens, scene of Allied drive	28	345
the struggle for	28	339
Anatolia, map of	28	406
Ancona, sinking of	1	655
	25	766
	28	481
Anti-aircraft guns	2	24
	13	503

General — cont'd	Vol.	Page
Anti-aircraft guns	13	566
Antwerp, fall of	28	306
Anzac	2	50
Appam case	2	73
Arabic, sinking of	2	128
	25	766
	28	448
	28	480
Arabs defeated by British in Egypt	28	411
Argentina and World War	17	28
Argonne, battle of	28	351
fighting in	28	311
Forest, attack on	28	316
battle of	28	350
German attack upon	28	316
Armaments of the belligerents	28	291
Armed neutrality	2	266
Armed ship	2	266
Armenian campaign	28	404
Armenian massacre	28	412
Armenian struggles	28	421
Armentières, battles of	28	340
taken by British	28	353
Armies mobilized	28	653
Armies of 1914	28	290
Armistice, execution of	28	465
German, duration of	28	464
goes into effect	28	355
terms, execution of	28	510
Armistices	28	459
events subsequent to the signing of	28	464
Arras, battle of	28	330
	28	331
	28	334
German losses at	28	331
Articles of War	2	359
Artois, battle of	28	315
Asia: Kiao-Chau campaign	28	401
Asiatic campaigns	28	401
Asphyxiating gases	2	407
	22	282
	28	673
Assault divisions	28	374
Assault, waves of	29	117
Aubers Ridge, battle of	28	314
Austria, anti-Serb riots in	28	268
asks for peace	28	353
flies flag of truce	28	396
Austria-Hungary, first attack by	28	434
war expenditures	28	649
war strength	28	291
Austrian advance	28	295
into Italy	28	378
into Serbia in 1914	28	295
Austrian armistice	28	460
terms of	28	461
Austrian attack on Italy, June, 1918	28	396
Austrian attack on the Caporetto	28	395
Austrian counter stroke against Italy	28	393
Austrian frontiers, treaty provisions regarding	28	578
Austrian interests outside Europe, treaty provisions regarding	28	583
Austrian Peace Treaty	28	576
Austrian retreat from Lemberg	28	365
Austrian retreat from Serbia, December, 1914	28	296

General — cont'd	Vol.	Page
Austrian-Serbian relations severed	28	270
Austrian successes against Italy in early 1916	28	388
Austrian Treaty, economic clauses	28	596
financial clauses	28	592
military, naval and air clauses	28	584
miscellaneous provisions	28	603
penalties	28	587
political clauses	28	583
for Europe	28	579
Austrian ultimatum	28	294
Austro-German drive against Rumania	28	437
Austro-German drive under von Mackensen	28	436
Austro-Hungarian Archduke and his wife murdered	28	267
Austro-Hungarian ultimatum to Serbia	28	268
Austro-Hungarian war loans	28	650
Austro-Hungarian weakness	28	300
Austro-Hungary and the war	2	636
Austro-Italian front	28	385
Austro-Italian hostilities in 1916	28	388
Austro-Serbian dispute	11	742
Avocourt, attack upon	28	322
	28	323
Bagdad, British advance upon	28	407
occupied by British	28	415
Baku, battles of	28	420
Balkan campaign	28	433
of 1918	28	438
Balkan States, war strength of	28	434
Balkans commercial problem	28	642
Balkans economic problems	28	644
Balkans military problem	28	644
Balkans, post-war problems and reconstruction in	28	641
race problem	28	643
reconstruction problem	28	643
Balkan war theatres, map of	28	435
Balloon, captive	19	60
Balloons in the war	1	183
	8	107
	19	59
	19	85
	28	456
Baltic barons	28	373
Bank of France during war	11	749
Bapaume, attack of British (August, 1918)	28	345
Cambrai road, attack of Germans	28	331
falls to New Zealanders	28	345
Barrage	3	275
	19	91
	28	312
fire	27	41
Barred zone	28	691
Basra entered by British	28	403

General — cont'd	Vol.	Page
Battalions of Death	28	380
Beaucourt taken by British	28	328
Beaumont Hamel, British attack upon	28	328
Beersheba falls to British	28	417
Belgian area of operations	28	294
Belgian army's stand at Namur	28	296
Belgian coast cleared of Germans	28	354
Belgian outrages by Germans	28	297
Belgian pits	19	91
Belgians abandon Geete line	28	297
Belgium and the war	3	467
Belgium, campaign in	28	296
invaded by Germans	28	296
Belgium's war expenditures	28	649
Belgium's war strength	28	291
Belgrade, Austrians driven from	28	435
evacuated by Serbians	28	434
Belleau Woods, American attack upon	28	349
capture of	18	290
battle of	28	349
Belligerency	3	484
Belligerent	3	486
Belligerents, armaments of	28	291
Berlin-to-Bagdad Railroad a reality	28	309
Bersaglieri	3	579
Bethlehem occupied by British	28	417
Big Five	28	514
Big Four	28	514
Big Ten	28	514
Billeting of soldiers	3	705
Binarville taken by Americans	28	352
Bixschoote, battle of	28	308
Blacklist	4	42
Black Watch	3	39
	22	145
Blanc Mont Ridge, capture of	18	291
Blanc Mont taken by Americans	28	351
Bleiazid	4	76
	19	91
Blighty	4	82
Blimp	19	60
	28	454
Blockade	4	98
Blockaded zone	28	691
around British Isles, map of	28	484
Boche	4	142
Bolivia and the World War	17	26
Bolshevism in Russia	28	381
	28	382
Bolshevists	18	456
	28	472
Bolshevist War in Russia	28	471
Bomb	4	198
	22	642
Bombproof	4	202
Boselli Cabinet's downfall	28	395
Bosnia, Serbian invasion of	28	295

General — cont'd	Vol.	Page
Brancourt taken by Allies	28	353
Brazil and World War	17	26
	17	30
Bremen, The	9	35
Brest-Litovsk, fall of	28	377
Treaty	28	381
	28	438
	28	611
abrogated	28	382
overthrown	28	381
Britain sends troops to Italy	28	395
Britain's army increased August 6, 1914	28	309
British adopt conscription	28	399
British air raids	28	455
British army in France in 1914	28	300
British attack at Bapaume (1918)	28	345
British break Hindenburg line	28	352
British colonies, war expenditures of	28	648
British fleet guards North Sea	28	442
British Grand Fleet	28	440
British Mission to America	19	738
British reply to Germany's neutrality proposal	28	273
British retreat from Mons	28	301
British retreat upon Kut	28	408
British shell scandal	28	314
British struggle in Flanders	28	311
British surrender Kut	28	409
British trade restrictions	28	477
Brody, battle of	28	378
Brunhilde line	28	351
broken by Americans	28	351
Brussilov's summer offensive in 1916	28	377
Bryan's note to Great Britain and France	28	477
Bryan resigns as Secretary of State	28	479
Bucharest, Treaty of	28	438
Bukovina, Russian advance into	28	378
Bulgaria after the war	28	644
Bulgaria defeated	28	439
Bulgaria offers to surrender	28	346
Bulgaria, treaty stipulations regarding	28	541
Bulgarian armistice	28	450
Bulgarian Treaty	28	605
financial clauses	28	607
military clauses	28	606
naval clauses	28	606
Bulgarians and the war	28	632
Bulgaria's economic problems due to the war	28	644
Bulgaria's war expenditures	28	650
Bulgaria's war strength	28	291
Burst interval	19	91
Buzancy falls to Americans	28	354
Cadorna's plans	28	386
Cairo-Palestine Railway opened	28	418
California plateau taken by French	28	335
Cambrai, battle of	28	335

General — cont'd	Vol.	Page
Cambria, battle of	28	336
captured, October 8, 1918	28	353
Saint Quentin line	28	351
sector, map of	28	336
Cameroons campaign	28	397
Camouflage	5	268
	19	91
Campaign of 1918, deciding	28	337
Canada and the war	5	352
Canadian Expeditionary Force	5	413
Canadian Mounted Rifles	28	325
Canada's participation in the Great War	5	413
Cantigny taken by Americans	28	349
Cantonment	5	537
Caporetto disaster	28	395
Carpathian passes taken by Russians	28	367
Carrier pigeon	14	341
Carso, battleground	28	391
battle of, in 1917	28	393
front	28	394
Plateau, battle of	28	390
Casualties of World War	28	653
compared with casualties of other wars	28	654
Cavell, Edith, execution of	6	149
Censorship of the war	28	258
Champagne, French 1915 campaign in	28	316
region, battle of	28	310
second battle of	28	316
Channel ports, German drives for	28	306
	28	339
Charleroi, struggle for	28	300
Chateau-Thierry, battle of	18	290
	28	343
sector, map of	28	349
Chemin des Dames, attacks of French	28	352
battle of	28	341
taken by French	28	331
	28	332
Chile and World War	17	29
China, treaty stipulations regarding	28	540
Chronological survey of war	28	279
Claims, international	15	251
Coldstream Guards	7	241
Cockchafers	28	331
Colombia and World War	17	29
Colonial and Japanese campaigns	28	397
Colonial campaigns	28	288
	28	397
chronology of	28	288
Commerce, Bulgarian, relation of war to	28	664
Polish, relation of war to	28	666
Russian, relation of war to	28	664
Turkish, relation of war to	28	666
Ukrainian, relation of war to	28	666
Compiègne, Forests, battle of	28	341
Congressional Medal of Honor awards	28	669

General — cont'd	Vol.	Page
Congress, President Wilson's war address to	28	485
Coni Zugna attacked by Austrians	28	388
Conscription Bill, 1917.	9	293
Conscription adopted by America	7	545
Conscription adopted by British	28	309
Conscription during World War	7	544
Continuous vogage, doctrine of	28	620
Contraband	7	593
controversies over	28	618
regulations of Allies	28	346
Contracts, prescriptions and judgments, treaty stipulations regarding	28	561
Coronel, battle of	7	720
	28	442
Costa Rica and the World War	17	27
Costs of the war	28	646
	28	647
	28	648
	28	649
	28	650
direct	28	646
indirect	28	646
	28	650
Council of Ten	28	514
Courland, Russian offensive in	28	378
Cracow, attack upon	28	367
Russian advance upon	28	367
Cressy torpedoed	28	442
Crisis of 1917	28	621
Crisis of the war	28	337
Ctesiphon, battle of	28	408
Cuba and the World War	17	26
	17	30
Currency, effect of the war on	28	668
Curtain of fire	28	312
Czecho-Slovaks and the war	28	630
Czecho-Slovak state, treaty provisions regarding	28	534
	28	581
Damascus, British drive on	28	421
fall of, to British	28	346
	28	353
	28	423
Danish neutrality	28	624
Danube, treaty provisions regarding	28	568
Danzig, treaty stipulations regarding	28	537
Dardanelles, attack on.	28	446
campaign	28	423
naval bombardment of	28	446
Daur, battle of	28	419
Daylight-saving	8	521
Dead Man's Hill, battle of	28	322
Death, Battalion of	28	380
Debâcle of 1918	28	489
Debts, treaty stipulations regarding	28	557
Deciding campaign of 1918	28	337
Declaration of London.	8	564
Declaration of Paris	8	564

General — cont'd	Vol.	Page
Declarations of war	19	736
	28	282
Delville Woods	28	328
Denmark, neutrality of.	28	624
Deutschland, The	9	35
Deutschland's trips to Baltimore and New London	9	35
	28	449
Devastation, permissible	28	676
Devil's Woods	28	328
Diaz succeeds Cadorna.	28	395
Dinant, seizure of, by Germans	28	302
Diplomacy during the war	28	474
Diplomatic history of the war	28	267
Diplomatic intercourse during European War	28	613
Diplomatic negotiations by the various nations during the war	28	474
Diplomatic negotiations with United States	28	474
Diplomatic relations broken, list of	28	282
Disputes, international.	15	251
Dixmude, battle of	28	307
Dogger Bank, battle of.	28	444
Dominican Republic and World War	17	27
Douaumont, German attack upon	28	321
	28	323
Drocourt-Quéant line broken by Allies	28	346
Duala, fall of	28	398
Dugout	9	389
Dukla Pass taken by Russians	28	368
Dumdum bullet	9	397
Dunajec, battle of	28	373
Durazzo evacuated by Italians and burned	28	389
Eastern front	28	284
	28	357
chaotic condition of.	28	380
disappearance of	28	380
events on	28	346
operations, chronology of	28	284
strategic situation on	28	357
East Prussia, Russian invasion of	28	360
treaty stipulations regarding	28	536
Economics and war	9	563
Economic problems arising out of the war	28	645
Ecuador and World War	17	27
Education and the war.	9	688
Egypt, treaty stipulations regarding	28	541
Turkish efforts to attack	28	404
Turko-German campaign against	28	405
	28	414
Elastic defense	28	334
Elbe, treaty provisions regarding	28	567
Emden, The	28	441
Emden's raids	28	441
Enemy	10	324
Enemy Alien Problems.	10	325
Enfield rifle	10	334
English aces	28	459

General — cont'd	Vol.	Page
Espionage Act of 1917, United States	10	504
European psychology of the war	28	658
Europe, political clauses for, in treaty	28	528
European War	6	4
	14	28
	28	259
Events subsequent to the signing of the armistices	28	464
Falkland Islands, battle of	10	731
	28	442
Festubert, battle of	28	314
	28	315
Field service regulations	11	183
Fighting strength of the nations	28	290
Final battle line, map of	28	355
Financial problems of the World War	11	212
Finnish peoples and the war	28	628
Fiume, demand for	28	517
Flame thrower	17	497
	28	673
Flame throwers, used by Germans	28	327
Flammenwerfer	17	497
	28	673
Flanders, British struggle in	28	311
Flight commander	19	92
Flying circus	28	325
Baron von Richtofen's	28	452
Flying corps, United States, activities in Europe	27	552
Foch made chief of French staff	28	332
Foch made Generalissimo	28	338
Foch orders Allied offensive July, 1918	28	342
Food administration	19	738
Food Control Law	11	432
Food problems and the war	11	441
Ford, Henry, peace expedition	11	465
	27	538
Fort Vaux, fall of	28	323
recaptured by French	28	324
Fourteen Points, President Wilson's	28	487
France, Germany's main offensive in	28	299
sends troops to Italy	28	395
Socialism in, during the war	11	627
France's aid to Russia.	28	310
France and the war	11	739
France's war expenditures	28	648
France's war strength	28	290
Francis Joseph, of Austria dies	28	391
Franco-American-British treaty	28	611
Freedom of the Seas	24	490
	28	615
Free zones in ports, treaty provisions	28	566
French aces	28	458
French air casualties	28	457

General — cont'd	Vol.	Page
French armies opposed to Germans in 1914	28	300
French army, mobilization of	11	741
French border line in October, 1914	28	297
French border offensive	28	298
French Champagne offensive	28	317
French defeat in Louvaine	28	299
French drive on the Oise	28	345
French gains on the Somme	28	328
French High Command, plans of	28	294
French merchant fleet	11	721
effect of war on	11	725
French mission to America	19	738
French navy, mobilization of	11	741
French offensive in Meuse Valley	28	299
French ports for Americans	28	347
French retirement behind the Meuse	28	299
French 75 millimeter field gun	13	564
Freya line broken by Americans	28	351
Friedenstrum	28	342
Fryatt case	12	139
Frye, attack upon	28	478
Fuel administrations	19	738
Galicia, map showing area recaptured by Germans	28	375
map showing Russian invasion of	28	366
recaptured by Central Powers	28	375
Russian occupation of, August-September, 1914	28	365
Russian retreat from	28	375
Gallipoli Peninsula, map of	28	426
Gallipoli, scene of Allied failure	28	426
Garda Lake, patrol of, by Italians	28	385
Gas attack, first	28	313
bombs used first time on Eastern front	28	371
first use of, by Germans	28	313
helmet	19	92
mask	22	283
mustard	19	655
poison	2	407
	22	282
	28	673
projectile	19	86
shells	22	282
warfare	19	92
Gaza, battle of	28	416
falls to British	28	417
Geete line abandoned by Belgians	28	297
German aces	28	459
German air service	28	4[illegible]3
German anglophobia	28	261
armies	28	291
disposition in France in 1914	28	299
German armistice	28	462
duration of	28	464
execution of	28	510
extension of	28	464
terms of	28	462
German assault on Warsaw	28	368
German attack in Argonne Forrest	28	316
German boundaries, treaty stipulations	28	527
German cabinet changes	28	489
German colonies, campaigns in	28	401
disposal of	28	515
treaty provisions relating to	28	540
German defeat, beginning of	28	341
drive for the Channel Ports	28	306
drive of May 27, 1918	28	341
East African campaign	28	399
evacuation of Saint Mihiel	28	350
fleet	28	440
front, weakening of	28	344
High Command's 1915 plans	28	308
interests outside Germany, treaty provisions as to	28	539
invasion of Belgium	28	296
invasion of Belgium and France, map showing extent of	28	301
kultur	12	575
losses in Allied offensive	28	346
military power, limitations on	28	518
offensive in France, main	28	299
offensive of March 21, 1918	28	337
	28	494
phalanx	28	374
possessions in Southern Pacific seized	28	441
propaganda offensive in Russia	28	379
resistance, last of	28	344
retreat from Belgian coast	28	354
retreat from the Marne	28	303
retreat in Flanders	28	354
retreat in 1917	28	329
retreat to the Aisne	28	343
Southwest African campaign	28	398
Sparticides	28	468
stand at the Aisne	28	305
treaties, enforcement of	28	556
treaty, economic clauses	28	554
treaty, financial clauses	28	553
treaty, general articles	28	555
treaty guarantees	28	574
treaty, military clauses of	28	541
treaty rejected by U. S. Senate	28	522
treaty, shipping clauses	28	259
German ultimatum to Russia	28	259
Germans ask for peace	28	333
punishment of	28	519
second retreat from the Marne	28	344
withdraw from the Scheldt	28	355
Germany and the Next War	28	260
and the war	12	611
announces intention of entering Belgium	28	296
announces resumption of ruthless submarine warfare	28	483
declares war zone around British Isles	28	477
map showing Russian invasion of	28	361
revolution in	28	467
Germany's affronts to America	28	346
devastation of abandoned areas	28	339
dream of an Eastern Empire	28	380
efforts to dispel British distrust	28	276
first peace note	28	482
first submarine decree	28	448
grand plan of operations	28	293
main offensive in France	28	299
Mexican - Japanese plan	28	484
national policy	27	197
plan to provoke war between United States and Mexico	28	484
rise after unification	28	259
submarine assurances	28	481
submarine blockade	28	447
ultimatum to Russia	11	741
war expenditures	28	649
war loans	28	649
war preparedness	28	260
war strength	28	291
Goeben and Breslau	12	751
escape British	28	440
Goeben, The	28	415
Gold reserve of principal countries	28	669
Gorizia, battle of	28	391
bombarded by Austrians	28	393
evacuated by Italians	28	395
heights attacked by Austrians	28	388
sector, map of	28	391
taken by Italians	28	391
Gourko's passes through German lines	28	363
Grand Duke Nicholas' appeal for Polish support	28	360
Grappa front	28	396
Graves, treaty stipulations regarding	28	546
Great Britain's advances to allies	28	648
Great Britain and the war	13	342
assures France of naval assistance	28	275

General — cont'd	Vol.	Page
colonies, war expenditures of	28	648
war expenditures	28	648
war relief expenditures	28	652
war strength	28	290
Greece after the war	28	644
and Albania in 1918	28	439
enters war	28	438
Greece's economic problems due to the war	28	644
entrance into the war	28	438
war expenditures	28	649
war strength	28	291
Greek political situation	28	437
Greeks and the war	28	633
Grenades	4	198
	13	459
	19	92
	22	642
Grey, Sir Edward's efforts to prevent war	28	272
Guatemala and World war	17	27
Gumbinnen bombarded by Russians	28	362
Guns	13	556
history and development	13	556
naval	13	559
	13	568
Hogue torpedoed	28	552
Haig's backs-to-the-wall		
Hogue torpedoed	28	442
Haiti and the World War	17	27
Hakki's surrender	28	424
Hand grenades	4	198
	22	642
Hartlepoole, German attack on	28	443
Hartmannsweilkerkopf taken by French	28	310
Hat-in-the-Ring Squadron	28	452
Haumont captured by Germans	28	320
Hazebrouck, German drive for	28	340
Hedjaz Kingdom established	28	414
Heligoland	14	78
battle of	28	443
Bight, battle of	28	443
treaty stipulations regarding	28	539
Hellwood	18	290
Hill 60, battle of	28	313
70, battle of	28	318
174, assault on	28	393
205, taken by French (1918)	28	344
287, attacks upon	28	322
	28	323
304, attacks upon	28	322
	28	323
Hindenburg explains defeat	28	355
Line	28	330
Line broken at Bullecourt	28	331
Line broken by British	28	352
Hindenburg's attacks on Warsaw (October-December, 1914)	28	368
opposition to draining Masurian Lakes	28	361
retreat to Silesia	28	369
to Austria's rescue	28	368
Hirson, fall of	28	302
Historical introduction to the war	28	2 9
Holy Land, British plan for reconquest of	28	416
Honduras and the World war	17	28
Hooge, battle of	28	325
Horn Reef, battle of	14	383
Hospitals, military	14	431
Hospital ships	14	433
	20	4
Human life, loss of	28	650
Hungarian Bolshevism	28	469
Hungary and the war	14	508
revolt in	17	468
Hussein ibn Ali joins Allies	28	413
Huy, seizure of by Germans	28	297
Indians, German attack upon at Givenchy	28	311
Indian troops, at the front	28	306
Industrial Insurance, relation of to the war	15	185
Insurance, treaty stipulations regarding	28	562
Inter-Allied commissions of control	28	606
International claims and disputes	15	251
Iodine war	18	564
Iowa Regiment (168th Infantry, U. S. A.)	28	184
Iskan Pasha surrenders	28	404
Isonzo, engagements on	28	391
operations in 1917	28	392
Italian advance across Austrian frontier	28	386
Italian army	28	383
campaign	28	383
campaign, difficulties of	28	384
in spring of 1917	28	392
coast bombarded	28	386
counter offensive of June, 1916	28	390
debâcle of October, 1917	28	395
early successes	28	386
Marxist Socialists and the War	11	630
mobilization	28	386
naval losses	28	390
navy, activities of	28	389
	28	390
navy's problem	28	387
offensive of August 1917	28	394
successes in 1918	28	396
war loans	28	649
Italo-Austrian frontier	28	385
Italy and World war	15	552
Austrian treaty provisions regarding	28	579
Austrian advance into	28	378
Italy's aid to other belligerents	28	397
air service	28	384
alliance with Germany and Austria	28	276
army at beginning of war	28	383
attitude, matter of speculation	28	276
final offensive	28	396
navy at war's outbreak	28	384
neutrality	15	554
political situation	28	392
war expenditures	28	649
war strength	28	290
Ivangorod, fall of	28	376
Japan in World War	15	739
Japan's ultimatum to Germany	28	278
war expenditures	28	649
war strength	28	291
Japanese campaign	28	397
demands	28	517
Jaroslav captured by Russians (September, 1914)	28	367
Jerusalem captured by Allenby	28	417
surrender of	28	417
Joffre's order before Marne battle	28	303
Joppa captured by Allenby	28	417
Jordan crossed by British	28	418
Jordan Valley, British drive to	28	417
Jugo-Slavs and the war	28	632
Julian front	28	394
Jutland, battle of	16	268
	28	444
map showing scene of naval battle	28	445
Kaiser's message to British ambassador	28	277
Kaiser Wilhelm der Grosse	16	279
sunk	28	441
Karlsruhe's raids	28	441
Kazimirjev, battle of	28	369
Kerensky made Minister of War	28	379
Kiao-Chau, siege of	28	401
Kiel Canal, peace treaty clauses relating to	28	571
King George's, the Kaiser's and the Tsar's exchange of telegrams	28	274
Kitchener, made British Secretary for War	28	309
Knights of Columbus and World War	19	738
Koenigsberg's raids	28	441
Königin Luise	16	517
	28	440
Kovno, fall of	28	377
Kremhilde Line	28	351
Krithia, battle for	28	430
Kronprinz Wilhelm interns at Newport News	28	441
Kurna surrendered by Turks	28	404
Kut, bombardment of	28	408
British efforts to relieve	28	409
fall of	28	410
falls to Turks	28	409
retaken by British, 1917	28	415
siege of by Turks	28	409
Townshend's advance upon	28	406
Kut-el-Amara, British advance on	28	405
La Bassée, battle of	28	307

General — cont'd	Vol.	Page
Lys engagement....	28	340
Labor clauses in treaties	28	520
	28	571
Labor's attitude toward American participation in war.....	19	737
Labor, under Austrian Treaty	28	603
Ladies from Hell.....	22	145
Lafayette Escadrille	28	452
La Fere evacuated by Germans	28	353
Lanzerac removed	28	302
Lanzerac's withdrawal from Charleroi	28	300
Laon evacuated by Germans	28	353
Latin America and World War.....	17	26
League of Nations.....	19	376
	27	326
	28	514
	28	524
and small nations...	28	638
attempts to sidetrack	28	516
covenant of	28	524
Le Cateau, battle of....	28	301
falls to British.....	28	353
German attack upon.	28	301
Leman's withdrawal from Liége	28	296
Lemberg, Austrian retreat from.....	28	365
fight for, in August, 1914	28	365
Russian attack upon	28	365
Lens, occupied by British	28	353
French struggle for.	28	315
sector, battle of....	28	317
Les Eparges taken by French	28	311
Letts and the war.....	28	629
Liaison	19	93
Libau bombarded by German fleet.....	28	440
Libau captured by Germans	28	374
Liberia Treaty, stipulations regarding.....	28	540
Liberty loans, United States	19	738
	28	648
Liberty motor.....	19	518
Lichnowskey's memorandum	28	489
Liége, defense of.....	28	297
German attack upon	28	296
Lille, fall of.....	28	302
Liquid fire.....	17	497
projector	17	497
	28	673
Listening posts.....	19	93
Lithuanians and the war	28	629
Lodge treaty resolutions	28	521
Lodz abandoned by Russians	28	371
Lodz, battle of.....	28	371
Loezer Circus.....	28	452
London, Declaration of.	8	564
	28	475
Treaty of (1915)....	17	632
Long-range bombardment of Paris.....	28	339
Longwy, fall of.....	29	302
Loos, battle of.....	28	317
	28	318
British attempt to capture	28	316

General — cont'd	Vol.	Page
British losses at...	28	318
Lorraine, French invasion of.....	28	298
Loss of life, capitalized value of.....	28	651
Louvain, destruction of	28	298
Ludendorff sees German defeat	28	345
Ludendorff's plans for 1918	28	337
Lusitania notes.....	28	479
Lusitania, sinking of...	17	750
	25	766
	27	223
	27	365
	27	536
	28	347
	28	448
	28	479
	28	619
Lutsk taken by Russians	28	378
Luxemburg, treaty provisions relating to...	28	528
Lys-Ypres sector, attack upon.....	28	340
Machine guns.....	18	568
	18	55
	19	86
Browning	18	568
	18	56
Lewis	18	56
Mackensen's drive through Rumania....	28	438
Mackensen's drive through Serbia	28	436
Magyars and the war..	28	631
Maubeuge, fall of.....	28	302
Marine Corps.....	18	288
Marines, United States.	18	288
	18	290
at Belleau Woods..	28	349
in France	18	290
Marne, battle of.....	28	302
crossed by Germans in 1918	28	342
German retreat from	28	303
Germans' second retreat from.....	28	344
salient destroyed (1918)	28	344
second battle of....	28	342
Masurian Lakes, winter battle of	28	371
Maximalists	18	456
Medal of Honor awards	28	669
Medical science and World War	18	564
Mediterranean, naval operations in.....	28	446
Merchant vessels lost in war	28	651
Merchant vessels, neutral, rights of....	18	664
transfer of, from belligerent to neutral flags	18	665
Mesopotamia and the war	18	688
Mesopotamia campaign.	28	401
	28	404
	28	405
of 1918.....	28	419
Mesopotamia in October, 1918	28	424
Mesopotamia, objects of British campaign in	28	405
renewal of British campaign in.....	28	415

General — cont'd	Vol.	Page
Messines Ridge, blown up by British.....	28	334
Meuse-Argonne operation	28	500
Meuse, crossed by Germans	28	296
heights, battle of...	28	311
Valley, French offensive in.....	28	299
Mexico and the World War	17	29
Mezera taken by British	28	403
Mezières, fall of.....	28	302
Midnight War Council at Potsdam.....	28	272
Military operations on the Western front....	28	292
Military situation, 1917 to spring of 1918.	28	493
when American entered war.....	28	490
Mills bomb	13	459
Mine, aerial.....	19	91
barrage in North Sea	25	762
	28	449
depot ships.....	20	4
layers	20	4
	28	744
planters	19	152
sweepers	28	744
British	28	762
sweeping	19	153
Mining of neutral waters	28	476
Mining property, treaty stipulations	28	529
Mines, fixed.....	25	761
floating	25	761
naval	19	799
Minor operations on Western front.....	28	324
Mobile defense.....	28	372
Mobilized forces, transportation of, in France	11	719
Moltke, resigns after failure	28	299
Money cost of the World War	22	754
Monfalcone shelled by Italians	28	386
Mons, battle of.....	28	301
British retreat from	28	301
Montdidier, operations near	28	345
Montdidiers surrendered by Germans.....	28	345
Monte Kuk taken by Italians	28	393
Monte Sabotino taken by Italians.....	28	390
Montfaucon taken by Americans	28	351
Mont Kemmel, battle of	28	340
Montmédy, fall of.....	28	302
Montozzo Pass occupied by Italians	28	386
Moquet Farm, capture of, by British.....	28	328
Moroccan troops at the front	28	306
Morocco, treaty stipulations regarding.....	28	540
Moronvillers, French attack upon.....	28	332
Mort Homme, batte of.	28	322
Moselle, army of.....	19	497
treaty provisions regarding	28	568
Motors in warfare.....	19	518

General — cont'd	Vol.	Page
Motor truck	19	517
Möwe raids	28	441
Mücke's exploit	28	441
Mülhausen, captured by French	28	298
Murder of Austro-Hungarian Archduke and his wife	28	267
Mustard gas	19	655
Namur	28	297
abandoned by Belgians	28	297
fall of	28	297
Nancy, battle of	28	305
Narev-Bobr-Niemen line	28	358
National debts, after European War	28	650
before European War	28	650
National Defense Act of 1916	9	623
National ideals in conduct of the war	19	738
National ideals in the war	19	735
National ideals on eve of World War	19	735
Nationalism	19	743
Nationality under Austrian Treaty	28	582
National Red Cross	28	278
Nationals of Allied and Associated Powers, treatment of, treaty stipulations	28	555
Nations, fighting strength of	28	290
Society of	11	630
Naval aeronautics	19	787
Naval auxiliary vessels	19	793
Naval battles in distant seas	28	440
Naval intelligence	19	797
Naval mines	19	799
Naval operations, chronology of	28	286
in the Mediterranean	28	446
of World War	28	286
	28	439
Naval problems	28	439
Naval resources	28	439
Navy, Italian	28	384
Nazareth, battle of	28	422
Netherlands, neutrality of	28	623
Neutrality	20	102
armed	2	266
breaches of, by belligerents	28	621
Neutral nations, cost of war to	28	652
Neutral trade during the war	28	475
Neutrals and the World War	28	623
Neuve Chapelle, battle of	28	312
Newly established political units	28	667
Nicaragua and World War	17	28
Nieuport, German attack upon	28	306
North Sea, British navy in	28	449
guard in	28	442
mine barrage	23	762
	28	449
Norwegian neutrality	28	625
Novo-Georgievsk, fall of	28	377
Ober-Ost	28	374
Offensive of 21 March, 1918	28	337
Oise line attacked by French	28	345
Omsk government	28	472
Ostend abandoned by Germans	28	354
Ostend, capture of, by Germans	28	306
raid	28	449
	28	450
Otranto channel, blockade of	28	384
Ottoman Empire and the World War	27	197
Panama and World War	17	26
Papal peace note	28	394
Paper currency issues during the war	28	669
Paraguay and World War	17	30
Paris-Amiens Railroad, German efforts to capture	28	339
Paris, Declaration of	8	564
long-range bombardment of	28	339
Passchendaele taken by British	28	335
Passport	21	372
Pasubio attacked by Austrians	28	388
Peace Conference	27	326
achievements of	28	636
and small nations	28	635
composition and organization	28	512
of 1919	28	512
problems of	28	513
Peace notes	28	482
Peace treaties	28	521
	28	605
Peace without victory	28	483
Penalties, treaty provisions regarding	28	547
Periscope	21	596
	25	773
Péronne taken by Austrians (1918)	28	345
Pershing, General John J., final report	28	490
Pershing places American troops at Foch's disposal	28	348
Persia, developments in	28	410
further developments in	28	420
Peru and World War	17	28
Petrograd, Russia	21	678
Pilgrims of Kienthal	11	630
Pill-boxes	19	94
	28	334
Platinum in the war	22	231
Poilu	22	279
Poison gas	18	565
	22	282
	28	314
	28	673
Poland, treaty stipulations regarding	28	535
Poles and the war	28	629
Polish Treaty	28	607
text of	28	608
Political parties and World War	22	309
Pont-à-Mousson, taken by French	28	311
Pope's peace note	28	487
Ports, under Bulgarian Treaty	28	607
waterways and railways, treaty provisions regarding	28	566
	28	600
Portugal's war strength	28	291
Posnia, battle of	28	388
Postal conventions, treaty stipulations regarding	28	556
Post-war problems and reconstruction in the Balkans	28	641
Potsdam, midnight war council at	28	272
Pozières, captured by British	28	328
Premont taken by Allies	28	353
Preparations for the war, 1914 to 1916	28	308
President Wilson's War Address to Congress	28	485
Pre-war events, chronology of	28	279
Princess Pat's Canadian Light Infantry	28	325
Prinz Eitel Friedrich reaches Newport News	28	441
Prinzip, murderer of heir to Hapsburg throne	28	267
Prisoners, German, held by the United States and Allied Powers at close of war	28	654
held by Germany at close of war	28	654
of war	22	602
	28	587
treaty stipulations regarding	28	546
	28	587
repatriation of	28	654
Russian, held by Germany	28	654
Privateer	22	611
Prize courts and prize jurisdiction	22	615
Prize, money	22	619
Production, loss in during war	28	651
Prohibition	22	638
Projectiles	22	640
Property losses on land caused by the war	28	651
Property losses resulting from the war	28	651
Property, rights and interests, treaty stipulations regarding	28	559
Przemysl	22	725
evacuated by Russians	28	373
	28	375
falls to Russians	28	369
Russian capture of	28	372
siege of	28	368
Psychiatry and war	22	731
Psychology of the war	28	655
Public opinion, phases of	19	737
Race for the sea	28	305
Raids	20	4
Railroads, military	19	78
Railway conventions under Polish Treaty	28	610
Railway management in war	23	177
Railways, government control of	23	167

General — cont'd	Vol.	Page
Railways, treaty provisions regarding	28	569
under Bulgarian Peace Treaty	28	607
Rainbow (42d) Division	23	183
	28	342
Ramadie taken by British	28	416
Rawa Russka, battle of	28	366
Grodek Lakes line abandoned by Russians	28	375
	28	376
Red Cross societies	23	278
Red Sea Coast, cleared of Turks	28	419
Religion, influence of war on	23	346
Religious work in the war	28	511
Rennenkampf's flight	28	365
Reparation demands	28	519
Reparation, treaty stipulations regarding	28	547
under Austrian Treaty	28	606
under German Treaty	28	519
Repatriation of prisoners	28	654
Revolution and military collapse of Russia	28	379
Rheims	23	456
	28	305
attacked by Germans in 1918	28	341
Cathedral, beginning of destruction of	28	305
taken by French	28	305
Rhine, left bank, treaty stipulations	28	528
treaty stipulations regarding	28	568
Riga, fall of, to Germans	28	374
Gulf of, occupied by German fleet	28	380
Roberts visits Indian troops on English front in France	28	306
Rockefeller Foundation	23	598
Rolling fire	19	95
Romange taken by Americans	28	353
Roulers captured by Allies	28	353
Royal Air Force	23	734
Royal Flying Corps	23	735
Rumania after the war	28	645
Rumania, Austro-German drive against	28	437
economic problems in	28	645
treaty provisions regarding	28	581
Rumanian campaign in Transylvania	28	437
Rumanians and the war	28	631
Rumania's war expenditures	28	649
Rumania's war strength	28	291
Russia and Russian states, treaty stipulations regarding	28	539
Russia and the World War	24	52
Russia receives aid from France	28	310
Russia, revolution and military collapse of	28	379
Russian army, democratization of	28	379

General — cont'd	Vol.	Page
Russian Black Sea towns, bombardment of, by Germans	28	402
Russian capture of Przemysl, 22 March 1915	28	372
Russian demoralization in 1917	28	380
Russian front at the time of the Brest-Litovsk Treaty, map	28	381
Russian industries mobilized	28	377
Russian invasion of East Prussia (August-September, 1914)	28	360
Russian invasion of Galicia, map showing	28	366
Russian invasion of Germany, map of	28	361
Russian losses in 1914–1915	28	377
Russian mobilization	28	274
and commanders	28	358
rapidity of	28	361
Russian navy in Black Sea	28	413
Russian Northwest Army group	28	359
Russian occupation of Galicia (August-September, 1914)	28	365
Russian offensive in Courland	28	378
Russian offensive of 1917	28	380
Russian operations in Armenia and Persia in 1915	28	414
Russian prisoners held by Germany	28	654
Russian refugees die by thousands	28	377
Russian retreat from Galicia	28	375
Russian retreat from Masurian Lakes	28	372
Russian retreat of 1915	28	373
Russian retreat to Lodz	28	370
Russian Revolution and military collapse (March-July 1917)	28	379
Russian shortage of munitions	28	373
Russian Southern Army group	28	359
Russian Southwest Army group	28	359
Russian territory, occupied by Germans, map of	28	382
Russian treachery	28	373
Russian war loans	28	649
Russians cross German frontier	28	362
Russians lay sieze to Przemysl	28	367
	28	368
Russia's capture of prisoners	28	377
Russia's war expenditures	28	649
Russia's war strength	28	290
Russky commands Warsaw area	28	367
Ruthenians and the war	28	630
Saint Eloi, battle of	28	313
Saint Mihiel, American capture of	28	350
battle of	28	350

General — cont'd	Vol.	Page
evacuated by Germans	28	350
operations	28	498
salient	18	291
Saint Quentin	24	167
fall of	28	353
German attack near	28	338
Salvador and World War	17	30
Salvation Army	24	215
Sambre to the Marne	28	299
San Gardo taken by Italians	28	391
Sarre Basin, treaty stipulations, regarding	28	516
	28	528
	28	530
Scarborough shelled by Germans	28	443
Scheldt Canal, battle for	28	351
Schleswig, treaty stipulations regarding	28	538
Searchlights	19	95
	24	488
Search, right of	24	487
Seas, distant, fighting in	28	440
freedom of	24	490
	28	615
Secret treaties	28	488
Sedan captured by Amer-Americans	28	356
Seeadler's raids	28	441
Selective draft, United States	19	738
	24	535
Selective Service Law, United States	24	535
United States, exemptions under	24	536
Sengalese, at the front	28	306
Senussi Brotherhood	28	410
Senussi Campaign	28	411
Senussi of Sollum	28	410
Serajevo, where war flame was kindled	28	267
Serb-Croat-Slovene state, treaty provisions regarding	28	580
Serbia after the war	28	644
Serbia, Austria's invasion of in 1914	28	295
Austrian retreat from in December, 1914	28	296
Serbia, Austro-Hungarian attack upon	28	434
Serbia, conquest of	28	436
incidental cause of the war	28	294
leads the fighting	28	294
reconquered by the Allies	28	439
war declared on	28	271
Serbia's economic problems due to the war	28	644
war expenditures	28	649
war strength	28	291
Serbian front in 1917	28	438
mobilization	28	434
Seventy-mile gun	15	285
Shantung captured by Japanese	28	441
Shantung treaty stipulations regarding	28	541
Shell shock	18	566
	19	90
Shipping Board, United States	24	727
Ship Registry Act of 1914	24	724

General — cont'd	Vol.	Page
Shunet-Nimrim position, raid on	28	418
Siam, treaty stipulations regarding	28	540
Siege	24	789
Siegfried Line	28	330
Siegfried line abandoned by Germans	28	345
cut by British	28	331
Siegfried Stellung	28	330
Sinjabis-British engagement	28	419
Small nations and achievements of Peace Conference	28	636
Small nations and League of Nations	28	638
Small nations and League of Nations	28	638
Small nations in period of war	28	638
Small states, boundaries of	28	518
Smoke-ball	25	135
Socialism, French, effect of the war on	11	628
Socialism in France during war	11	627
Socialists, Italian Marxists, and the war	11	630
Society of Nations	11	630
Soissons, battle of	28	310
offensive	18	291
taken by Germans May 29, 1918	28	341
Sollum, battle of	28	411
Somme, battle of	28	324
	28	326
British losses at	28	329
first battle of	28	325
second battle of	28	339
South America, neutrality of	28	637
Southern front operations, chronology of	28	285
Soviet	28	472
Spain, neutrality of	28	626
Spartacides	28	467
Spirit of civic cooperation in conduct of the war	19	738
Spy	25	461
Stallupoenen occupied by Russians	28	362
Star and Stripes	28	512
Statesmen of belligerent countries during the war, principal	28	289
Strategy	25	711
Stryj, battle of	28	375
occupied by Russians	28	368
Submarine bases, attack on	28	449
Submarine campaign	28	447
Submarine chasers	28	744
Eagle class	28	744
Submarine mines	25	761
automatic	25	762
electrical contact	25	762
fixed	25	762
floating	25	762
observation	25	762
Submarine periscope	25	773
Submarine question	28	619
Submarine signaling	25	763
receiving devices	25	764
sound-producing devices	25	764

General — cont'd	Vol.	Page
Submarine tenders	20	4
Submarine torpedo	26	706
Submarine warfare	19	736
	25	765
	28	478
Submarines	20	4
	25	769
	28	740
development	25	769
German	28	742
	28	743
	28	759
history and development	25	769
in the World War	25	774
Sudan rebellion	28	412
Suez Canal, Turkish attack upon	28	405
	28	415
Supplementary engagements in 1916	28	324
Supreme Economic Council	28	466
Sussex notes	28	481
sinking of	25	766
	27	537
	28	448
	28	481
Sweden, neutrality of	28	625
Swiss Socialists and war	11	630
Switzerland, neutrality of	28	624
Syria, British offensive in during 1918	28	421
Syria, Turkish army in	28	421
Syrian campaign	28	401
of 1918	28	421
Taft-Walsh board	28	682
Tanks	25	663
	26	243
	28	329
female	26	244
first use of by British	28	329
great use of in Cambrai battle	28	336
Tannenberg, battle of	28	360
	28	363
	28	364
Telegraphic and Radio-Telegraphic Conventions under treaties	28	556
	28	610
Telegraphy	26	328
submarine sound	26	344
wireless	26	345
Territorial claims	28	516
Teskit falls to British	28	416
Tiberias occupied by British	28	423
Tilsit, occupied by Russians	28	361
Togoland campaign	28	397
Tommy Atkins	26	683
Too Proud to Fight	26	690
Torpedo boats	26	704
Torpedoes	26	705
Townshend's expedition	28	406
surrender	28	409
Tractor, caterpillar	26	747
Tractors, armed	19	91
armored	2	277
military	26	747
Transcaucasian campaign	28	404
of 1915	28	412
Transport	27	8
Transylvania, Rumanian campaign in	28	437

General — cont'd	Vol.	Page
Treaties, secret	28	488
Treaty of Versailles	28	401
	28	521
Treaty with Austria	28	520
Bulgaria	28	520
Germany	28	522
Trenches	27	39
communicating	19	69
	27	40
Trench fever	18	566
Trench raids, inauguration of	28	311
Trench warfare	15	119
	19	86
beginning of	28	305
on eastern front	28	371
Triple Alliance	27	70
Triple Entente	27	72
Tsar Nicholas assumes command of Russian armies	28	377
Turco-German project, first	28	404
Turco-German submarine activities	28	413
Turcos at the front	28	306
Turkey and the World War	27	197
Turkey asks for armistice	28	424
Turkey, treaty stipulations regarding	28	541
Turkey's armed strength	28	402
war expenditures	28	650
war plans	28	403
war strength	28	291
Turkish-Armenia falls Russians	28	413
Turkish Armenians offered autonomy	28	412
Turkish armistice	28	459
terms	28	424
	28	460
Turkish army in Syria	28	421
Turkish campaigns	28	401
Twentieth Century	27	218
UC-12 sunk	28	390
Udine falls to Austrians	28	395
Unfair competition, treaty stipulations regarding	28	535
United States' advances to Allies	28	648
United States and the war	27	585
	28	346
declares war	28	486
United States Military Academy graduates killed in World War	29	207
United States naval reserve force	27	556
United States severs relations with Germany	28	483
United States' war expenditures	28	647
United States war relief expenditures	28	652
war strength	28	291
Urfa, battle of	28	420
Uruguay and World War	17	28
Valenciennes evacuated by Germans	28	354
Vaux, battle of	28	322
Venezuela and World War	17	30
Venice, bombarded by Austrians from the air	28	386

General — cont'd	Vol.	Page
Verdun	28	14
battle of	28	319
	28	320
	28	335
engagement renewed by French	28	335
Versailles, France	28	85
treaty of	28	401
	28	521
Vesle crossed by Germans	28	341
Victoria Cross	28	74
Victory bread	11	444
Victory Loan	28	648
Villers Bretonneux, battle of	28	340
Vilna, Russian offensive near	28	378
Vimy Ridge, battle of	28	316
	28	317
taken by Canadians	28	331
Vladivostok, Americans and Japanese sent to	28	382
Von Kluck's retreat from the Marne	28	303
War	28	257
War and the small nations	28	628
War casulties	28	652
censorship of	28	258
devastation	28	676
diplomacy	28	474
	28	613
European	28	259
expenditures of various nations	11	214
War gardens	28	677
War God	28	679
War indemnity	28	679
War Industries Board	19	738
	28	679
War, instrumentalities and methods of	28	670
War Labor Board, National	28	682
War Labor Boards	28	681
War Labor Conference Board	28	682
War Labor Policies Board	28	682
War Office, British	28	682
War, preparation for	28	308
War Presidents	28	280
War Relief costs	28	651
expenditures of United Kingdom	28	652
War Risk Insurance	28	684
War Rulers	28	280
Presidents and Statesmen, list of	28	289
War Savings Certificates	28	648
Warsaw, attack on	28	370
fall of	28	376
first German attack on	28	368
Hindenburg's attacks upon (October-December, 1914)	28	368
Warsaw salient, battle for	28	376
Warsaw, second German attack on	28	370
Warships, Austro-Hungarian, lost in World War	28	767
British, lost in World War	28	766
French, lost in World War	28	766
	28	767
German, lost in World War	28	767
Italian, lost in World War	28	767
Japanese, lost in World War	28	767
lost in World War	28	766
modern	28	718
Russian, lost in World War	28	767
Turkish, lost in World War	28	767
United States, lost in World War	28	766
War wounds	28	689
War zones	28	691
Waterways under Bulgarian treaty	28	607
Waves of assault	29	117
Wejh, battle of	28	414
Welfare work during the war	28	511
Western front	28	282
military operations upon	28	292
minor operations on	28	324
operations, chronology of	28	283
West Point graduates killed in the war	29	207
Whippet tanks	26	244
	28	345
Whippets, first use of, by British	28	339
Whitby, German attack on	28	443
Wilhelmina, seizure of	28	476
William II visits Constantinople and Palestine	28	264
Willy-Nicky telegrams	24	55
Wilson announces object of war	28	347
Wilson's Fourteen Points	28	487
Wilson's peace proposal	28	482
peace without victory speech	28	483
too proud to fight speech	28	479
war speech	28	485
Windau captured by Germans	28	374
Wire entanglements	29	411
Wireless telegraphy	26	345
Wireless telephony	26	384
World War and its relation to world commerce	28	661
World commerce as affected by war	28	661
World war and modern imperialism	29	551
World War and Small Nations	28	628
historical introduction	28	259
Yarmouth, German raid on	28	443
Yeser, crossed by Germans	28	307
Young Men's Christian Association and war	19	738
	29	661
Young Turk Party	27	198
Ypres	29	669
battle of	28	307
first battle of	28	307
French losses at	28	308
second battle of	28	313
third battle of	28	332
Zeebrugge, capture of, by Germans	28	306
Zeebrugge raid	28	449
	28	450
Zeppelins	1	187
	19	60
Zonnebeke-Hollebeke line, battle of	28	308

See also **Aeronautics; Automobiles and Self-Propelled Vehicles; Government and Political Science; History; Military Science and History; Naval Science and History.**

Biographies

	Vol.	Page
Albert I, King of Belgians	1	331
Alexeiev, General	28	359
Allenby, Gen. Sir E. H. H.	1	417
	28	416
Arnim, General Von	28	333
Asquith, Herbert Henry	2	408
	28	314
Baker, Newton Diehl	3	60
Beatty, Sir David	3	388
	28	443
Below, Otto von	28	333
Benson, William Shepherd	3	524
Berchtold, Count	3	537
Bernhardi, Friedrich von	3	572
Bethmann - Hollweg, Theobald	3	592
	13	545
Bliss, Tasker Howard	4	89
Bolo Pasha, Paul	4	193
Botha, Louis	4	313
	28	399
Briand, Aristide	4	488
Brusiloff Alexei, Alexeievitch	4	641
Bryan, William Jennings	28	646
Bryce, James, Viscount	4	648
Bülow, Bernhard, Prince von	5	18
Byng, Sir Julian Hedworth George	5	96
	28	335
Cadorna, Count Luigi	5	135
	15	462
	28	384
Caillaux, Joseph	5	146
Capps, Washington Lee	5	570
Castelnau, Eduard de Curières de	28	305
Castle, Vernon	6	7
Cavell, Edith	6	149
Charles VII, of Austria	6	311
Churchill, Winston Leonard Spencer	6	663
	13	326
	28	446
Clemenceau, Georges Benjamin Eugène	7	83
Cradock, Sir Christopher	8	148
	28	442
Daniels, Josephus	8	457
D'Annunzio, Gabriele	2	3
	15	556
Derby, Edward George Villiers, Stanley, 17th Earl of	8	709
De Wet, Christiaan	9	46

Biographies — cont'd	Vol.	Page
Diaz, Armando	15	462
Enver Pasha	10	405
	28	404
	28	424
Falkenhayn, Erich G. A. S. von	10	730
Fayolle, General	28	326
Fisher of Kilvorstone, 1st Baron	11	281
Fisher, Sir John Arbuthnot	11	281
Foch, Ferdinand	11	409
	28	306
	28	332
	28	338
Ford, Henry	11	465
Francis Joseph I of Austria	11	745
French, Sir John Denton Pinkstone	5	412
	12	61
	28	300
Fryatt, Charles	12	139
Gallieni, Joseph Simon.	12	247
Geddes, Sir Eric Campbell	12	353
George V, King of Great Britain	12	475
Goschen, Sir William Edward	13	68
	28	274
Grey, Sir Edward (Grey of Fallodon)	13	465
	28	272
Guynemer, George	28	455
Haig, Sir Douglas	13	619
	28	326
Hamilton, Sir Ivan Standish Monteith	13	658
Hertling, Georg F.	14	152
Hindenburg, Paul von Beneckendorff	14	193
	28	361
	28	364
Hoover, Herbert Clark.	11	441
	14	370
House, Edward Mandell	14	444
Jellicoe, John Rushworth	16	10
	28	444
Joffre, Joseph Jacques Césaire	16	153
	28	299
Kerensky, Alexander Feodorovitch	16	376
Kitchener, Horatio Herbert	13	331
	13	343
	16	463
Klotz, Louis Lucien	16	475
Kluck, Alexander H. R. von	16	475
	28	303
Kolchak, Admiral	28	382
	28	473
Korniloff, Laurus Gregorovitch	16	529
Kouropatkin, Alexei N.	16	535
Lane, Franklin Knight	16	713
Lansing, Robert	16	736
Laurier, Wilfrid	17	111
Lawrence, Col. Thomas.	28	414
Liebknecht, Karl	17	406
Lloyd-George, David	12	476
	28	315
Ludendorff, Erich von	17	720
	28	339
Luxemburg, Rosa	17	764
McAdoo, William Gibbs.	18	4
Mackensen, Field Marshal von	28	373
	28	375
March, Peyton Conway.	18	268
Marconi, Guglielmo	18	273
Maud, Sir Stanley	18	447
	28	415
	28	416
Mayo, Henry Thomas	18	468
Meissner, James	28	453
Mercier, Desiré Joseph	18	666
Michaelis, Georg	19	13
Nicholas, Grand Duke	20	345
	28	359
Nicholas II	20	315
Nikolai, Nikolaievitch	20	345
	28	359
Nivelle, Robert Georges.	20	378
	28	330
Northcliffe, First Baron.	20	427
Pau, Paul	21	411
Pellegrini, Mario	28	397
Pershing, John Joseph	21	612
	27	514
	28	347
Pétain, Henry Philippe.	21	655
	28	332
Plumer, General	28	333
Poincaré, Raymond	22	280
Rawlinson, Sir Henry	28	326
	28	352
Rennenkampf, Paul Charles von	23	377
	28	362
Rickenbacker, Edward	27	554
	28	452
	28	453
Roberts of Kandahar, Pretoria and Waterford	23	570
	28	306
Rodman, Hugh	23	622
Roosevelt, Quentin	28	452
Roosevelt, Theodore	23	680
Rupert, Crown Prince of Bavaria	23	776
Rupprecht, Maria Liutpold Ferdinand	23	776
Ruzsky, Nicolas Vladimirovitch	24	69
Sarrail, Maurice	24	306
Scheidemann, Philip	24	365
Scott, Hugh Lenox	24	439
Simonds, Frank Herbert	25	25
Sims, William Sowden	25	29
Smuts, Jan Christiaan	25	140
Sonnino, Baron Sidney Constantino	25	258
Spee, Maximilian	25	379
	28	441
Spring-Rice, Cecil Arthur	25	453
Stewart. Bertrand	25	643
Sturdee, Sir Frederick Charles Doveton	25	755
	28	442
Tardieu, André Pierre, G. A.	26	267
Tirpitz, Alfred von	26	644
	28	440
Townshend, Charles Vere Ferrers	26	728
Treitschke, Heinrich von	27	37
Victor Emmanuel III	28	68
Vietri, Arturo	28	390
Viviani, René	28	156
Von Emmich, Otto	28	184
Wales, Prince of	28	224
White, Henry	29	266
White, Wilbur	28	453
Whitlock, Brand	29	279
William (Friedrich Wilhelm Viktor August Ernst)	29	329
William II (Friedrich Wilhelm Victor Albert)	29	332
Wilson, Sir Henry Hughes	29	359
Wilson, Theodore Delevan	29	362
Wilson, Woodrow	29	363
Wood, Leonard	29	473
Zeppelin, Count Ferdinand von	29	703
Zhilinsky, General	28	359

ZOOLOGY

General	Vol.	Page
Acanthocephala	1	635
Acclimatization, capacity of animals for	1	75
	1	76
Actinozoa	1	107
American Entomological Society	1	514
American Ornithologists Union	1	548
Amniota	1	637
Amoeba	1	583
Amphibia	1	586
	1	637
	29	730
Amphineura	1	636
	6	570
Amphiuma	1	590
Amphiumidæ	1	590
Anamnia	1	637
Animal	1	696
Animalculæ	1	704
Animalcule	1	704
Animal experimentation	1	698
Animal industry	1	699
Animal Kingdom, chief subdivisions of	1	634
Animal psychology	1	699
Animals and plants, differences between	1	696
Animals, aquatic	2	106
cave	6	143
classification of	1	704
Colonial	7	286
compound	7	286
desert	9	6
diseases of	1	708
domesticated	1	710
pelagic	21	480
play of	22	241
social behavior of	23	164
warm-blooded	28	705
Annelida	1	636
	2	3
	14	204
Annelides	29	730
Anthozoa	1	107
	1	635
Aquarium	2	105
Arachnida	1	636
	2	130
	2	353
Arachnides	29	730
Arthropoda	1	636
	2	10
	2	352
Arthrostraca	2	353
Articulata	1	705
	2	361
Ascidia	7	286
Asteroidea	1	637
	2	444
Audubon societies	2	537
Autochthonous	2	641
Aves	1	637
	2	675
	29	730
Aviary	2	678
Beasts of prey	3	386
Benthos	3	526

General — cont'd	Vol.	Page
Bimania	22	577
Birds	3	728
	9	191
	19	49
	29	730
Branchiata	1	636
Brachiopoda	1	636
	4	380
	22	339
	29	730
Brachiopods	4	380
Branchiopoda	4	410
Breeding	4	460
Bryozoa	4	651
Calcaera	1	635
Carnivora	3	386
	5	641
	22	160
Cave animals	6	143
Cenogenesis	6	192
Cephalochorda	1	637
	6	217
Cephalopoda	1	636
	6	217
Cestoda	1	635
	6	232
Chætognatha	1	636
Chætopoda	1	636
	6	243
Chilopoda	2	353
	6	201
Chordata	1	637
	6	592
Ciliata	1	634
	6	676
Climate and animals	7	109
Cnidaria	1	635
Cœlenterata	7	205
Commensalism	2	10
	7	365
Crinoid	8	204
Crinoidea	1	637
	8	204
Cross fertilization in animals and in man	8	235
Crustacea	1	636
	2	353
	8	263
	19	49
	29	730
Ctenophora	1	635
	8	277
Cyclostomata	1	637
Cyclostomi	8	363
Deep sea life	8	579
Desert animals	9	6
Digitigrade animals	22	160
Diœcious	9	133
Diplopoda	2	353
Echinoderma	9	542
Echinodermata	1	637
	9	542
Echinoderms	29	730
Echinoidea	1	637
	9	543
Embryology	1	629
	10	277
Endoparasitism	21	289

General — cont'd	Vol.	Page
Entomology	1	30
	10	401
economic	10	401
Entomophthorales	10	403
Entomoptera	2	353
Entomostraca	10	403
Entozoa	10	403
Environment	10	406
Estivation	10	524
	14	165
Evolution	10	605
Ewart's experiments	14	536
Fascination, animal	11	50
Fauna	11	64
	17	680
	23	81
Benthal	3	525
of Afghanistan	1	208
of Africa	1	216
of Alabama	1	298
of Alaska	1	312
of Argentina	2	199
of Arkansas	2	257
of Asia	2	393
of Australia	2	566
of Bengal	3	511
of California	5	200
of Chile	6	501
of China	6	518
of Colombia	7	276
of Costa Rica	8	40
of Delaware	8	609
of Denmark	8	680
of Florida	11	369
of Greenland	13	435
of Guiana	13	529
of Hungary	14	501
of Iceland	14	627
of India	15	3
of Ireland	15	310
of Italy	15	434
of Japan	15	626
of Java	15	755
of Latin America	17	3
of Louisiana	17	680
of Madagascar	18	93
of Maine	18	143
of Mexico	18	742
of Minnesota	19	201
of Mississippi	19	243
of Newfoundland	20	269
of New South Wales	20	162
of New York	20	190
of New Zealand	20	245
of North America	1	490
of North Carolina	20	413
of North Dakota	20	421
of Norway	20	438
of Oregon	20	774
of Persia	21	614
of Peru	21	644
of Philippine Islands	21	755
of Porto Rico	21	401
of Portugal	21	410
of Quebec	21	72
of Queensland	23	81
of Rocky Mountains	23	617
of Russia	24	5
of Salvador	24	210

General — cont'd	Vol.	Page
of Sardinia	24	300
of Siam	24	763
of South America	1	490
of South Carolina	25	289
of Spain	25	325
of Sweden	26	116
of Switzerland	26	145
of Tennessee	26	419
of Texas	26	460
of Turkey	27	181
of Ukraine	27	257
of Utah	27	612
of Venezuela	27	729
of Vermont	28	19
of Washington	28	783
of Wyoming	29	584
of Yukon	29	674
Fish	11	266
	14	635
	23	618
Flagellata	1	634
	11	322
Flight	11	354
Flukes	27	38
Game breeding	12	263
Game preserves, or game parks	12	265
Gasteropoda	1	636
	12	334
Genus	12	404
Gephyrea	1	636
	12	492
Glires	23	619
Gordiacea	1	635
	13	61
Gradientia	27	597
Hemichorda	1	637
Herbivora	14	120
Herpetology	14	143
Heteraxonia	1	635
Heterogony	18	696
Heteropoda	14	160
Hexapoda	14	163
Hibernation	14	164
Hirudenea	1	636
	14	204
Holothuria	14	324
Holothuroidea	1	637
	14	324
Hybridization, artificial	14	535
Hybridity	14	535
Hybrids, fertility of	14	535
sterility in	14	535
Hydromedusae	1	635
Hydrozoa	1	635
	14	589
Ichthyology	14	635
immigrations, animal and vegetal	14	715
Inbreeding	8	236
Infusoria	15	126
	29	730
Inquiline	15	146
Insecta	1	636
	2	353
	15	159
	29	730
Insectivora	15	160
Insect pests	14	168
Insects	2	87
	15	160
	29	730
classification of	15	162
of importance to man	15	163
Interbreeding	8	236
Introduced species	15	272
Invertebrates	15	287
	25	67
Jardin d'Acclimatation	15	748
Lamarckism	16	667

General — cont'd	Vol.	Page
Lamellibranchiata	21	482
Life of the sea, surface	8	579
Limulus	2	353
Lymphyla	2	353
Mammalia	1	637
	18	174
	29	730
Mammals	18	174
	19	49
living, distribution of	9	188
Marine pests	29	239
Menagerie	18	620
Merostomata	2	353
	18	678
Metachrosis	18	695
Metagenesis	18	696
Metazoa	1	634
	18	711
Mexican subregion	18	737
Microtome	19	38
Migration	19	49
Mollusca	1	636
	1	705
	19	327
	29	730
Molluscoida	1	636
	19	329
Montana National Bison Range and herd	19	394
Museum of Comparative Zoology	1	231
	19	619
Myriapoda	1	636
	19	660
Myriapods	6	201
Nearctic Region	20	23
Nemathelminthes	1	635
	20	67
Nematoda	1	635
	14	364
	20	69
Nemertinea	1	635
	20	69
Neotropical Region, or Neogæa	20	76
Nidification	20	331
Non-calcareous	1	635
Notogæa	20	76
	20	459
Onychophora	1	636
Ophiuroidea	1	637
	20	706
Order	20	733
Oriental Region	20	794
Origin of species	20	899
Ornithological societies in the United States	21	4
Ornithology	21	4
Oviparous animals	21	62
Pachydermata	21	88
Pædogenesis	21	94
Pancarida	2	353
Parasites	21	287
Pauropoda	2	353
Pelagic animals	21	480
Pelecypoda	1	636
	21	482
Phoronida	1	636
	21	793
Pisces	1	637
	14	635
	22	117
	29	730
Pisciculture	11	278
Plantigrade animals	22	160
Platoda	1	635
Platyhelminthes	1	635
	22	240
Platypus	22	241
Play of animals	22	241

General — cont'd	Vol.	Page
Pluteus	4	566
Polyp	22	335
Polypi	29	730
Polypus	22	335
Polyzoa	1	636
	22	339
Primates	22	577
Prosogoneata	2	353
Protaxonia	1	634
Protoplasm	1	630
	22	691
Protostegidæ	22	692
Prototheria	22	694
Protozoa	1	634
	22	694
subdivisions	22	695
Pteropoda	22	749
Pterosauria	22	749
Quadrumana	22	577
	23	54
Radiata	1	705
	23	117
	29	730
Reptiles	14	143
	23	388
Cuvier's classification of	14	143
Reptilia	1	637
	23	388
	29	730
Rhizopoda	1	634
Rocky Mountain subregion	23	612
Rodentia	23	619
groups of	23	620
Rotifera	1	635
	23	718
Ruminants	23	772
Scaphopoda	1	636
	24	353
Scolecida	24	424
Scolopacidae	24	425
Scolopendrella	2	353
Scombridæ	24	425
Scyphomedusæ	1	635
Scyphozoa	1	635
Siphonophora	1	635
	25	44
Social behavior of animals	25	164
Species	25	367
extinction of	10	669
origin of	20	899
Spongiaria	1	635
Sporozoa	1	634
	25	433
Surface life of the sea	8	579
Tracheata	1	636
Trematoda	1	635
	27	38
Tunicata	27	145
Turbellaria	1	635
	22	240
	27	169
Urochorda	1	637
	27	145
	27	597
Urodela	27	597
Vermes	28	16
	29	730
Vertebrata	1	637
	1	705
	28	40
	29	730
Vertebrates	25	67
Warm-blooded animals	28	705
Wild life, conservation of, in America	29	308
Worms	29	730
Zareeba	29	689
Zoogeographical regions	29	727

General — cont'd	Vol.	Page
Zoogeography	29	724
Zoological gardens	29	728
Cincinnati	6	685
Zoological Park, National	25	134
Zoology	29	729
history of	29	729
Zoophyte	29	731

Animal Anatomy and Physiology

Air bladder	11	270
Alimentary tract	1	403
Allantois	1	409
Amphigony	1	644
Analogy	1	606
Anatomy, comparative	1	629
Animal chemistry	1	697
Animal electricity	1	698
Animal heat	1	698
Animals, age of	1	235
chemical sense in	1	704
cross-fertilization in	8	235
imitation in	14	709
luminosity of	17	736
metamorphoses in	18	706
mimicry in	19	144
mind in the brute	1	712
physiological distinctions and resemblances	1	697
protective resemblance	14	709
Angiostomun	14	180
Antlers	2	43
Ants, senses of	2	10
Aperture	2	55
Aristotle's lantern	2	244
Arthromere	2	352
Arthrophragm	2	352
Arthropleure	2	352
Automatism	2	642
Base	3	302
Beak	3	375
Bezoar	3	606
Bill	3	375
Birds, structure of	21	4
Bladder, swimming	26	136
Budding	4	677
Buzzing	5	94
Cell	8	375
Cephalization	6	216
Cere	6	223
Chorda dorsalis	14	26
	20	459
Chordotonal organ	1	648
Circulatory system	1	641
Coloration, protective	7	324
Comb	7	348
Conchyolin	7	462
Ctenoid	8	277
Cymothoidæ	14	130
Cytode	8	375
Cytology	8	375
Cytoplasm	8	378
Digestion	9	109
Digestive system of animals	1	639
Diprothodonty	9	142
Eclipse dress	22	256
Embryology	10	277
Endoskeleton	25	67
Excretory system	1	642
Exoskeleton	25	67
Feathers	22	254
Feather-tracts	11	75
Fenestration	11	116
Filo-plumes	22	255
Fish, anatomy of	11	266
Flesh	11	347
Gizzard	9	113
	12	670

Animal Anatomy, Etc.— cont'd	Vol.	Page
Gullet	9	113
Gynandromorphism	14	130
Head	14	26
Heliotropism	14	80
Hermaphroditism	14	130
abnormal	14	130
natural	14	130
true	14	130
Heterogony	18	696
Honey-bee, structure of	14	354
Hoof	14	362
Hoofs, false	14	362
Horn	14	382
Horse, evolution of	14	396
Hypermetamorphosis	18	707
Insects, anatomy of	15	161
Integumentary system	1	634
Lactation	19	102
Larva	16	753
Malpighian cells	22	254
Malpighian corpuscle	1	644
Mammals, alimentary canal	9	113
	18	176
brain	18	177
classification of	18	178
distribution of	18	177
hair of	18	174
heart of	18	177
horns of	14	382
integuments of	18	174
kidneys of	18	176
lungs of	18	176
reproductive system of	18	177
sense organs	18	177
skeleton	18	174
teeth of	18	175
Mammary glands	18	179
Metagenesis	18	696
Metanephridium	1	643
Mimicry	14	709
	19	144
Mixogamy	19	275
Molt	22	256
Molting	19	329
Motor system	1	638
Nervous system	1	645
Nidification	20	331
Notochord	20	459
Ocellus	20	568
Ovaries	1	644
	21	57
Ovipositor	21	62
Palpi	21	219
labial	21	219
maxillary	21	219
Palpili	21	219
Parenchyma	21	297
Pastern	21	373
Patella	25	68
Pelvis in animals	21	490
Phylogeny	22	25
Pineal gland	1	649
Pineal organ	1	649
Plumage	22	254
protective coloration	22	256
Polypary	22	335
Polypide	22	335
Polypidom	22	335
Polypite	22	335
Porifera	22	374
	25	429
Protaxonia	1	632
	1	635
Protonephridium	1	643
Pterylography	22	749
Quadrate bone	23	52
Quill	23	90

Animal Anatomy, Etc.— cont'd	Vol.	Page
Rattlesnake, venom apparatus of	23	229
Respiratory system	1	640
Rhinoceros horn, nasal	14	383
Sarcode	25	429
Schyphozoa	7	206
Sense organs	11	270
	14	26
	18	177
Shell	24	683
Shells of bivalved mollusks	24	683
Shells of mollusks	24	683
Skeleton	1	638
	18	174
	25	67
of invertebrates	25	67
of vertebrates	25	67
Somites metameres	2	372
Spinal cord	11	272
	25	410
Spleen	25	426
Splint-bones	14	397
Stomach	9	113
	25	671
Suture	26	104
Teeth	26	320
Teeth of vertebrates	26	322
Teeth selenodont	24	539
Testes	1	644
Thermotropism	26	547
Thorax	26	586
Tortoise shell	26	714
Udder	8	399
Vertebræ	14	26
Visual organs	1	649
Wolffian duct	1	644

See also **Biology.**

INVERTEBRATES

Invertebrates — General

Acalephæ	29	730
Acanthocephala	1	635
	20	67
Acarus scabiei	15	557
Actinaria	24	472
Actinopoda	14	324
Actinozoa	1	107
	14	589
	24	476
	29	717
Adelochorda	1	135
Adive	1	140
Agalena nævia	25	406
Alcyonaria	1	351
Alcyonarian coral-polyps	13	65
Aleurobius	26	610
Amœba	1	583
Ancylostoma duodenale, larva of	14	365
Animalcule	1	704
Animals, parasitic	21	290
Anthozoa	1	107
	7	206
	24	472
Appendicularia	22	152
Araneida	2	130
Araneæ	25	405
	25	406
Argiope argyraspis	25	407
Argiope aurantium	25	407
Artemia	22	24
Asteracanthion forbesii	25	494
Asteracanthion vulgaris	25	494
Asteroidea	9	542
	25	493
Astropecien articularis	25	494
Bahral	3	48

Invertebrates — General cont'd

	Vol.	Page
Balanoglossus	3	71
Bassett-Griffon	13	471
Bells, swimming	25	44
Binucleata	24	117
Blastoidea	9	543
Book-worm	4	234
Cake-urchin	5	152
Calcarea	25	430
Campanulari	14	589
Carchesium	15	127
Caudina arenata	14	324
Centiped	6	201
Centipede	6	201
	19	661
house	14	445
Ceratosa	6	222
Cercaria	4	223
Cestus veneris	28	9
Chætopoda	7	286
Cheese-mites	19	270
Cheeta	6	375
Cheilognatha	6	376
Cheilopoda	6	376
Chicken itchmite	19	270
Chicken-mite	6	456
Chicken-tick	6	457
Chilognatha	6	376
	19	117
Chilopoda	6	376
Chlamydomonas	6	578
Chlorophyceæ	6	578
Ciliata	6	676
	15	126
Cirrhopoda	29	730
Cladodactyla crocea	14	324
Clionidæ	7	116
Clypeasteroidea	24	477
Coccolith	7	181
Coral, brainstone	4	407
Coraline, bull's horn	5	18
Corals	14	26
Cribrella sanguinolenta	25	494
Cribellatæ	25	406
Crinoidea	9	542
Croosaster pappossus	25	494
Crustacea	8	263
Cteniza californica	25	406
	27	15
Ctenophora	7	206
	8	277
Cystoidea	9	543
Cytodites nudus	19	270
Dactylozooids	25	44
Daddy-Long-Legs	8	390
Dauw	8	495
Desmospongiæ	25	430
Diplopoda	19	661
Dipneumones	25	406
Discophora	17	227
Distoma lanceolatum	23	713
Doliolum	22	152
Dromedary	9	339
Echinarachnius	24	251
Echinaster sentus	25	494
Echinoidea	9	542
Echinoderma	9	542
Echinodermata	9	542
Ecribellatæ	25	406
Egg-urchin	9	728
Entozoa	10	403
Euplectella	25	430
Epistylis	6	676
Fasciola hepatica	23	713
Fierasifer	14	324
Flagellata	11	322
	15	126
Floats	25	44
Foraminifera	11	459
Fungus-eaters	12	174
Gastrozooids	25	44

Invertebrates — General cont'd

	Vol.	Page
Geophilus	6	201
Girdle of Venus	12	665
	28	9
Globigerina	12	719
Gonozooids	25	44
Gorgonia	13	65
Grantia ciliata	25	430
Gregarine	13	442
Gregarinida	25	433
Hæmosporidia	25	434
Heteromita	15	126
Hexactinellidæ	25	430
Holothurianus edulis	27	48
Holothuroidea	9	543
	14	324
Holothuria	14	324
Hydra	7	286
	14	539
Hydræ	7	286
Hydraria	14	589
Hydrocorallinæ	14	589
Hydrophyllia	25	44
Hydrozoa	1	635
	7	206
	14	589
	19	117
Ichthyobdellidæ	17	228
Infusoria	14	26
	15	126
protozoan	21	290
Insects	15	160
	19	44
Intestina	29	730
Jellyfish	16	11
	22	152
blue	16	11
Keratosa	25	430
Larvacea	27	145
Leptosynapta girardii	14	324
Luidia clathrata	25	494
Lycosidæ	25	408
Madreporaria	18	108
Madrepore	18	108
Mæandrina	18	110
Mange	19	270
Mastigophora	18	419
Metridium marginatum	24	472
Microsporidia	25	434
Millepore	19	117
Mite	19	269
	26	608
cheese	26	610
itch	15	557
	19	270
mange	19	270
scab	19	270
six-spotted	20	727
Mollusca	19	327
Monaxonida	25	430
Moner	19	343
Myxosporidia	19	675
	25	434
Nectocalyces	25	44
Nematocysts	14	589
	20	68
Nephila nigra	25	407
Netweavers	25	406
Nummulite	20	498
Ophiactis	4	565
Ophiopholis aculeata	4	566
Ophiothela	4	565
Ophiuroidea	9	542
Orb-weaver	20	738
	25	406
Orbitelariæ	25	406
Orbitoides	20	498
Palæodiscus	4	566
Palæostraca	2	353
Paractinopoda	14	324
Paragorgia arborea	13	66

Invertebrates — General cont'd

	Vol.	Page
Paramecium	15	126
	21	285
Parasites	21	287
Pennatulidæ	24	476
Pentaceros reticularis	25	494
Peridinium	21	585
Peripatus	21	596
Perutinidæ	21	585
Phipigorgia flabellum	13	66
Phoronidea	21	793
Phoronis	21	793
Pinnotheres pisum	21	437
Pissodes strobi	22	96
Plankton	22	152
Pneumatophores	25	44
Polyp	22	335
Primnoa reseda	13	66
Protaster	4	566
Proteus animalcule	1	583
Protista	22	690
Protozoa	1	631
	1	634
	7	286
	11	459
	14	26
	22	152
	22	694
Protozoon rhizapoda	21	290
Protozoon sporozoa	21	290
Psolus	14	324
Psoroptes communis	19	270
Pyrosoma	22	152
Radiolaria	23	126
Retitelariæ	25	406
Rhizopoda	11	459
Rotifera	1	635
	23	718
	27	80
Roundworms	23	722
Salpa	22	152
	27	145
Sand-cake	5	152
	24	251
Sand-dollar	5	152
	24	251
Sarcoptes nutans	19	270
Sarcoptes scabei	2	130
	15	557
	19	270
Sarcosporidia	25	434
Scolecida acanthocephala	21	290
Scolecida cestoda	21	290
Scolecida nematoda	21	290
Scolecida trematoda	21	290
Scolopendra	6	201
Scolopendridæ	19	661
Scorpion	24	426
book	4	233
	10	736
false	4	233
	10	736
Scorpionida	2	130
Seacucumbers	14	324
Sea-egg	9	728
Sea-fans	13	65
Sea-pen	24	476
Sea-whips	13	65
Siphonophora	7	286
	14	589
	25	44
Skippers	13	652
	17	308
Slipper animalcule	21	285
Spiders	25	405
	25	406
Spider, bird	3	727
	3	728
bird-catching	3	727
diadem	9	55

Invertebrates — General cont'd

	Vol.	Page
Spider, false	24	427
harvest	8	390
jumping	16	246
	25	406
parasitic	21	290
red	13	434
	22	100
scorpion	24	427
sea	24	477
sedentary	25	406
trap-door	25	406
	27	15
triangle	27	52
wandering	25	406
Sponge	25	429
cup	8	304
Spongiariæ	25	429
Sporozoa	25	433
Star, brittle	4	565
feather	11	75
sand	4	565
snake	4	565
Starfish	25	493
Stelleroidea	9	542
Stentor	6	676
	15	127
Stylasteridæ	19	117
Syllidæ	2	353
Synapta	14	324
Tapeworm	26	260
Tapeworms, statistical data	26	261
Tarantula	26	266
killer	26	266
Tentaculæ	25	44
Tentaculifera	26	436
Tetraxonida	25	430
Thaliacea	27	145
Thyone briareus	14	324
Tick	26	608
bird	3	728
death	8	541
dove	9	284
poultry	6	456
sheep	21	288
Tongue-worms	17	460
Trepang	27	48
Trilobita	2	353
Trilobites	1	130
Trochosphere	27	81
Trypanosoma	27	117
Tubeweavers	25	406
	27	119
Tubitelariæ	25	406
Tubulariæ	14	589
Tunicata	27	145
Tunisates	22	152
Tunnelweavers	25	406
Umbellularia grœnlandica	24	476
Urchins, sea	9	543
Urochorda	27	145
Vejovis carolinensis	24	426
Vorticella	15	127
	28	186
Vorticellæ	6	676
Vorticellidæ	28	186
Worms	28	16
	29	559
	29	730

Crustacea

	Vol.	Page
Abdominalia	6	697
Amphipoda	1	589
Apoda	6	697
Apus	2	104
	27	65
Artemia fertilis	4	542
Arthrostraca	2	353
	15	421

Crustacea — cont'd

	Vol.	Page
Asellus	2	381
Astacidæ	2	443
Astacus	2	443
Balanidæ	6	697
	24	472
Barnacle	3	262
	21	287
	29	231
acorn	24	472
Beach-flea	3	372
Bipeltata	3	723
Birgus latro	23	564
Branchipidæ	22	24
Branchiopoda	4	410
Branchipas stagnalis	4	542
Callinectes sapidus	8	143
Cenobitidæ	14	132
Chrysodomus antiquus	23	563
Cirripedia	6	697
Cladocera	22	24
Copepoda	7	648
	11	279
Coronula	29	231
Crab	8	143
box	4	368
Brazilian mangrove	16	694
cocoanut	23	564
fiddler	8	143
	11	178
glass	12	703
hermit	14	132
horsefoot	14	415
horse-shoe	14	415
jonah	16	195
kelp	16	345
king	14	415
lady	16	644
land	8	143
	16	694
	23	564
no-body	21	250
oyster	8	143
	21	81
palm	21	210
	23	564
pea	21	81
	21	437
river	16	694
shore	8	143
soft-shelled	8	143
Crangon franciscorum	24	759
Crangon vulgaris	24	759
Crawfish	8	167
	16	694
Crayfish	8	167
	16	694
blind	6	144
Crustacea	8	263
Cyclops	8	363
Cymothoidæ	14	130
Cypris	8	369
pubera	8	369
Daphnia	8	470
Decapoda	8	755
Dermatochelydidæ	6	378
Egeria	9	722
Entomostraca	4	410
	10	403
Fish-lice	11	279
Gelasimus	11	178
Gribble	13	467
Homarus	17	553
Hyas coarctatus	25	405
Isopoda	15	421
Lambrus pourtalesii	25	405
Lepas	6	697
Lepidurus glacialis	2	104
Libinia	25	405
Limulus	2	130
	27	65
Lobster	17	553

Crustacea — cont'd

	Vol.	Page
Macrura	14	132
Maiidæ	25	405
Malacostraca	2	3 3
	15	421
	18	158
Merostomata	18	678
Nephrops	17	553
Oniscidæ	29	486
Oreonectes pellucidus	6	144
Ostracoda	21	35
Otion	29	231
Paguridæ	14	132
Palæmonidæ	22	514
Palæmon serratus	22	514
Palinurus	17	553
Pantopoda	21	250
	24	477
Parapaguridæ	14	132
Phyllocarida	22	24
Phyllopoda	22	24
Pinnotheres ostreum	21	81
Prawn	22	514
Pycnogonida	21	250
Rhizocephala	6	697
Sacculina	6	697
Sea-acorn	24	472
Sea-anemone	24	472
Shrimp	24	759
brine	4	542
fairy	10	722
mantis	18	238
opossum	20	715
Thoracica	6	697
Xiphosura	27	65

Insects

	Vol.	Page
Acarida	2	130
	26	608
Acarus	1	67
Achorentes nivicola	25	460
Acræinæ	1	102
Acridiidæ	13	160
Aculeata	14	595
Adders, flying	9	296
penny	9	296
Admiral	1	145
red	23	277
Ægeria exitiosa	21	448
Aëpophilus	18	288
Aëpus	18	288
Ageronia	5	88
Agonderus pallipes	13	491
Agrilus ruficollis	29	478
Agrilus sinuatus	21	453
	29	478
Agrionidæ	9	296
Alabama argillacea	8	76
Alder-fly	1	354
	8	30
Aletia xylina	8	76
Aleyrodes	13	434
citri	13	434
	20	727
	29	271
Aleyrodidæ	18	477
	29	271
Allorhina nitida	16	247
Ametabola	1	570
Anarsia lineatella	21	448
Anasa tristis	22	153
	25	464
Androconia	1	676
	5	88
Anisopteryx	2	87
Annoma arcens	9	338
Anobium	2	4
Anopheles	2	5
	19	503
	22	120
	22	761
Anosia archippus	6	646

Insects — cont'd	Vol.	Page
Anosia plexippus	19	109
Ants	2	7
agricultural	1	243
driver	9	338
duck	26	443
foraging	11	459
honey	14	353
mushroom gardens	2	8
parasitic	2	10
pavement	21	427
Pharaoh's	21	707
primitive	2	9
slavery among	2	10
sound produced by	2	10
symbiosis in	2	10
white	15	164
	26	443
Antheræa paphia	25	7
Anthomyia	11	353
Anthonomus grandis	29	159
Anthrenus scrophulariæ	5	656
Anthon	2	44
Apanteles	13	594
lacteicolor	13	594
Aphaniptera	2	56
	21	290
Aphid	2	57
Aphides	4	698
Aphis, black	18	434
black peach	21	448
brassicæ	5	116
brown	13	434
fomi	2	88
orange	20	727
peach-tree	21	448
persicæ niger	21	448
woolly	2	87
Aphodius	9	404
Apidæ	2	58
	3	417
	14	353
Apis mellifica	14	354
Aptera	29	730
Apterogyna	2	10
Arachnida	21	219
	25	405
	26	608
	27	65
Aramiges fulleri	13	434
Aranhas caranguejeiras	19	660
Arctia	26	623
Arctiidæ	17	309
Argas	6	457
	19	8
miniatus	6	457
persicus	6	457
reflexus	6	457
	9	284
Argiope diadema	9	55
Argulus	11	279
Army worm, fall	10	731
Arthrogastra	2	352
Arthropoda	15	160
Asilidæ	23	564
Aspidiotus citricola	20	727
Aspidiotus ficus	20	727
Aspidiotus perniciosus	2	87
	24	347
Ateuchius sacer	9	404
Atropos divinatorius	4	232
Atta	2	8
Attacus Atlas	19	511
Attagenus piceus	5	657
Attidæ	16	246
Aulacaspis rosæ	13	434
Autheræa jama-mai	29	610
Axayacat	2	681
Axayacatl	2	681
Azurine	2	692
Bag-worm	10	239
	20	727

Insects — cont'd	Vol.	Page
Balaninius rectus	29	159
Balaninus	20	509
Basilarchia	14	710
Basketworm	3	44
Bat-parasites	3	326
Beauty, camberwell	5	245
Bedbug	3	411
Bee	3	417
	15	163
bumble	5	21
burrowing	5	66
carpenter	5	654
cuckoo	8	289
Egyptian honey	14	354
honey	14	353
guest	13	527
killer	3	422
leaf-cutter	17	175
ligurian	14	354
mason	18	383
mosquito	19	508
queen	3	417
	3	419
	14	353
Beetle	3	440
artillery	4	199
ash-gray blister	21	437
asparagus	2	403
bacon	3	26
	8	713
bark	3	254
black	4	32
black carpet	5	657
blister	4	89
bombardier	4	199
burying	5	71
calosoma	13	594
carpet	5	656
checkered	6	370
click	7	100
clover-leaf	7	135
coarse-writing bark	22	96
cucumber	8	291
diamond	9	66
diving	9	203
	12	92
dung	9	404
elephant	10	222
elm-leaf	10	260
eyeless	6	144
fiddle	12	174
flea	11	340
	26	681
flour	11	385
flower	11	394
fruit-tree bark	21	448
Fuller's rose	13	434
golden	13	25
Goldsmith	13	34
Goliath	13	39
grape-vine flea	13	145
ground	13	491
ham	13	651
hercules	14	123
June	16	247
ladybird	24	347
leaf	17	175
leather	17	190
May	4	90
	18	461
pear-blight	21	454
pine-destroying	22	96
potato	22	445
	26	681
rose	23	699
rove	23	728
snout	25	148
soldier	25	238
stag	25	470
tiger	26	622
water	29	16

Insects — cont'd	Vol.	Page
whirligig	12	92
wood-boring	29	478
wood-engraver bark	22	96
Belostoma	29	36
Belostomidæ	11	279
Bembicidæ	3	497
Blastophaga	15	163
grossorum	11	202
Blattidæ	4	71
Blight, American	4	82
Blissus cucopterus	29	345
Bloodworm	4	115
Bolbocerus	9	404
Boll-weevil	21	437
	24	663
Mexican	4	191
Boll-worm	26	681
Bombycidæ	4	202
	19	511
	29	152
Bombyx mori	25	7
Bombyx textor	25	7
Bombyx yamamai	25	7
Bomidæ	3	417
Borer	2	87
	9	336
apple-tree	29	478
clover-root	7	135
clover-stem	7	135
flat-headed	4	269
locust	17	589
peach-tree	21	448
peach twig	21	448
pear	21	453
round-headed	4	230
Boro poloo	25	7
Broteas alleni	24	426
Brachycera	11	353
Bristletails	4	547
Bruchidæ	29	160
Bruchus	4	626
pisorum	21	437
Buffalo gnat	4	694
Bug	4	698
box-elder plant	22	153
chinch	15	164
	22	153
	29	245
coffee	7	211
flower	11	394
June	18	461
lace	16	631
leaf	17	175
leaf-footed	20	727
lightning	11	236
mealy	13	434
	18	471
	22	100
overflow	13	168
	21	59
pirate	22	115
plant	17	175
	22	153
potato	22	445
red	17	175
	20	727
	22	153
squash	8	291
	22	153
stink	25	653
water	29	17
walking	28	232
Buhach	4	701
Bulb worm, wheat	29	244
Buprestidæ	5	30
	29	478
Butterflies	5	88
Ajax	21	269
brush-footed	17	308
cabbage	5	116
heliconid	14	709

Insects — cont'd	Vol.	Page
Butterflies monarch	19	109
nettle	20	97
peacock	21	449
swallow-tailed	17	308
	26	107
tortoise-shell	26	714
Cabbage aphis	5	116
Cadelle	13	112
Calandra granaria	13	112
Calandra oryza	13	112
Calandra palmarum	13	503
	29	159
Caligus	11	279
Calliphora	11	347
vomitoria	4	119
Calosoma	13	491
sycophanta	13	594
Camel-crickets	18	238
Campodea	5	286
	15	160
Camponotinæ	14	353
Cantharadine	4	89
Cantharides	5	532
	15	164
Capsidæ	11	340
	17	175
Carabidæ	5	581
	13	491
	29	16
Carpocapsa pomonella	2	87
Carpocapsa saltitans	16	246
Caterpillar	6	50
	22	96
red humped apple-tree	21	453
saddleback	20	727
tent	2	87
zebra	5	116
Caterpillar hunters	13	491
Cathartus advena	13	112
Cathartus gemellatus	13	112
Catocala	6	107
Cecidomyia	6	159
Cecidomyidæ	29	244
Cerapachys	2	9
Ceratomia amyntor	10	259
Cecropia	19	511
Centrurus infamatus	24	426
Cerambycidæ	6	218
	29	478
Cermatiidæ	14	445
Chafer	6	243
Chalcididæ	29	245
Chalcosiidæ	19	511
Changa	6	287
Chicken-lice	6	456
Chionaspis citri	20	727
Chionaspis furfurus	24	347
Chionaspis, orange	20	727
Chinch	6	548
Chitin	6	570
Chitine	6	570
Chlamys	6	574
Chrysalis	6	646
Chrysobothris	29	478
femorata	2	87
	29	478
harrisii	29	478
scalaris	6	648
Chrysomela	6	648
Chrysomelidæ	2	403
	6	574
	6	648
	11	340
Cicada	6	667
	24	613
septendecem	24	613
Cicadidæ	4	698
	6	669
septendecem	6	667
tibicen	6	667

Insects — cont'd	Vol.	Page
Cicindelidæ	26	622
Cimex lectularius	6	548
Citigradæ	25	406
Clearwing	7	78
Clisiocampa	26	436
	29	152
americana	2	87
Clothilla pulsatoria	8	541
Coarctate larva	4	90
Coccidæ	3	255
	18	477
	24	346
Coccidioidea	25	433
Coccotorus scutellaris	22	254
Coccus	7	181
cacti	5	630
	9	452
	24	346
manniferus	26	233
polonicus	24	346
sinensis	24	347
Cochineal	7	184
Cockroach	7	188
Cocktails	23	728
Coleoptera	4	698
	15	162
	29	730
Coleptera	7	244
Collembola	25	460
Colopha ulmicola	10	259
Compsilura concinnata	13	594
Cone-nose	7	485
Conotrachelus nenuphar	2	88
	22	254
	29	159
Copper	7	651
Copris	9	404
Coreidæ	22	153
Corrodentia	8	20
Corydalis	8	30
cornutus	9	215
Cossidæ	19	511
Cotton insects	8	76
Cotton stainer	17	175
	22	153
Crab-louse	8	144
	17	691
Crab-spider	8	144
	19	660
	25	405
Crambus vulvivagellus	29	152
Cranefly	8	157
	8	390
Cricket	13	160
	13	506
field	11	182
mole	19	311
Crioceris asparagi	2	403
Crioceris 12-punctatus	2	403
Cricket	8	190
Mormon	19	463
Ctenizidæ	27	15
Cuckoo-spit	8	290
Cucujo	8	290
Cucuyo	8	290
	17	736
Culex pungens	19	502
	19	503
Culicidæ	8	295
	21	290
Curculio	8	305
	21	448
	25	148
Curculionidæ	8	305
Cybister	9	203
Cyclica	6	574
Cyclorapha	11	354
Cyllene pictus	28	244
Cyllene robiniæ	17	589
	29	478
Cynipidæ	8	366

Insects — cont'd	Vol.	Page
Cystophyllus concavus	16	318
Dactylopius citri	22	100
Damsel-fly	8	443
Dana archippus	8	445
Dana erippus	8	445
Danais	8	445
Dayfly	8	521
	18	462
Deathwatch	8	542
Demodex canis	2	130
Demoiselle	8	670
Dendrocotonus picea-perda	3	255
Dendroctonus ponderosa	22	96
Dermanyssus avium	6	457
Dermanyssus gallinæ	6	456
	19	270
Dermaptera	15	162
Dermestes	8	713
Dermestidæ lardarius	8	713
Desmia funeralis	13	145
Devil's coach-horse	9	40
Devil's darning-needles	9	296
Deypusoleus	9	40
Diapheroma femorata	21	715
Diapheromera	28	232
Diaspis bromeliæ	22	100
Dibothricephalus	21	290
Dictynidæ	9	90
Diplosis pini-rigidæ	22	96
Diplosis resinicola	22	96
Diplosis violicola	13	434
	28	106
Diptera	9	142
	9	235
	11	340
	11	352
	12	57
	15	161
	15	162
	21	290
Dobson	9	215
Dor	9	263
Dorr	9	263
Dorylidæ	2	7
Dorylinæ	2	9
Dorylus arcens	9	338
Doryphora decemlineata	22	445
Drosophila	22	339
Dryas	9	362
paphia	9	362
Dynastes hercules	14	123
Dysdercus suturellus	8	76
Dysdercus suturella	20	727
Dysdurcas suturellus	22	153
Dytiscidæ	9	203
	12	92
	29	16
Dytiscus	9	203
Eacles imperialis	22	96
Earwig	9	500
Easilarchia disippus	19	109
Eciton	9	338
Ecophylla smaragdina	2	8
Ectoparasites	21	288
Elater	10	54
Elateridæ	10	54
	11	236
	17	736
Emperor	10	300
purple	10	300
Emphytus canadensis	13	434
	28	106
Empretia stimulea	20	727
Entimus imperialis	9	66
Epeira	10	411
labyrinthea	25	407
strix	25	408
Ephemeridæ	10	412
Ephestia kühniella	11	385
	13	112

Insects — cont'd	Vol.	Page
Ephydra	4	542
	10	416
Epicœrus imbricatus	25	148
Epicopiidæ	19	511
Epizoa	10	437
Eproboscidea	11	354
Eriocampoides limacina	24	332
Eriocompoides limacina	21	454
Eristalus tenax	9	339
Erycinidæ	17	308
Eumenes fraterna	29	1
Eumenidæ	29	1
Euphoria	11	394
Fallow-chat	20	245
Featherwing	22	258
Femorata	28	232
Feronia	11	135
Fig-eater	11	202
	16	247
Fig-wasp	15	163
Fish-flies	11	279
Fish-killer	11	279
Flea	11	340
beetles	11	340
chicken	6	456
hopper	11	340
Flies	11	352
black	4	34
blow	4	119
bluebottle	4	129
boat	4	137
bot	4	305
	24	676
breeze	21	68
brown	23	127
cabbage	5	116
cabbage root	5	116
caddis	5	131
candle	5	497
	16	737
chalcis	6	250
cheese	6	375
Chinese candle	5	497
chin	6	516
cuckoo	8	290
currant	8	310
deer	14	410
dragon	9	295
drone	9	339
fire	11	236
fish	11	279
flesh	11	347
forest	11	469
froghoppers	12	118
froth	12	118
fruit	12	181
	29	244
gad	14	410
gall	12	241
	13	434
	14	596
ham	13	612
heel	21	68
hessian	29	244
horn	14	383
horse	14	410
horse bot	14	410
ichneumon	14	596
	14	634
	21	288
	21	290
lantern	16	737
larch saw	16	747
March	18	268
May	18	462
moose	19	436
nimble	20	349
pomace	22	339
raspberry saw	23	222
robber	23	564

Insects — cont'd	Vol.	Page
saw	13	434
	14	596
	17	176
	17	586
	17	589
	22	97
	24	332
scorpion	24	426
screw-worm	24	454
Spanish	4	89
	15	164
shad	18	462
stone	25	684
syrphus	26	193
tachina	26	202
tsetse	13	613
	25	96
	27	118
two-winged	15	161
violet gall	13	434
violet saw	13	434
white (aleyrodes citri)	13	434
	20	727
	29	271
Flowers and insects, their relations	11	397
Folder, grape-leaf	13	145
Footmen	11	458
Forficulidæ	9	500
Formica	2	8
	2	10
fusca	2	9
Formicidæ	14	373
Fritillary	12	113
Fulgora candelaria	5	497
Fulgora laternaria	16	737
Fulgoridæ	5	497
Galeruca xanthomelæna	10	260
Gall-gnats	12	241
	13	434
Gall midge	22	96
Gamasidæ	26	609
Gastrophilus equi	14	410
Gastrophilus nasalis	6	516
Gelechia cerealella	11	406
	13	112
Gelechia pinifoliella	22	96
Geometridæ	12	441
	17	309
	18	461
	22	363
Geotrupes	9	404
Girdler	12	665
Glossina morsitans	27	118
Glow-worm	11	236
Gnat	12	735
fungus	12	174
Goërius olens	23	728
Goliathus	13	39
giganteus	13	39
Goniocotes	18	168
abdominalis	6	456
hologaster	6	456
Gortyna nitela	22	445
Grapholitha sebastianæ	16	246
Grasshopper	13	160
green meadow	13	160
short horned	13	160
Grease-bug	13	168
Grubs, white	13	434
Grugru	13	503
	21	210
Gryllidæ	13	506
Gryllotalpa vulgaris	19	311
Guano peludo	4	306
Gyrinidæ	12	92
	29	16
Gyropus	18	168
Hæmatobia serata	14	383
Halacaridæ	26	609

Insects — cont'd	Vol.	Page
Halesidota	27	211
Halobates	18	288
Haltica chalybea	13	145
Halticini	11	340
Halticus uhleri	11	340
Harpalus	13	491
Harvest bugs	19	270
Hay-worm	14	16
Heliothis armigera	8	77
	26	687
Hellgrammite	14	84
Hemiptera	2	57
	4	698
	6	667
	14	88
	15	162
	22	138
	26	596
Hepialidæ	19	511
	26	133
Hesperidæ	25	76
Hesperiidæ	5	89
	17	308
Heterocera	17	309
Heterometabola	15	162
Hippelates	14	290
Holometabola	15	162
Homalodisca coagulata	24	668
Homoptera	6	667
	26	596
Hoplia	11	394
Hornet	14	385
Horse-stingers	9	296
Housefly	15	164
Hydrometridæ	18	288
	22	348
Hydrophilidæ	14	582
	29	16
Hylastes trifolii	7	135
Hymenoptera	2	7
	14	353
	14	634
	14	595
	15	161
	15	162
	25	652
	29	730
Hyphantria cunea	2	87
	29	152
Hypoeïinea	11	459
Hypoderma bovis	21	68
Hypoderma lineata	21	68
Hyptiotes cavatus	27	52
Icerya purchasi	20	727
	24	347
Ichthycerys novaboracensis	21	448
Imagoes	19	502
Insect pests	14	168
corn	7	704
Insects	15	160
	19	44
amber	1	471
cabbage	5	116
classification of	15	162
egg and growth of	15	161
elm	10	259
flour and meal	11	385
fresh-water	12	92
grain	13	112
greenhouse	13	434
larva of	15	162
leaf	17	175
	21	715
leaf-chewing	21	448
marine	18	287
metamorphoses of	15	162
metamorphosis in the primitive	18	707
nesting habits	2	8
nests	2	8

Insects — cont'd	Vol.	Page
Insects of importance to man	15	163
potato infesting	22	445
pupa of	15	162
scale	21	448
	22	97
	22	100
	24	346
sense of hearing	15	161
sense of sight	15	161
sense of smell	15	161
sense of taste	15	161
spectre	21	715
stick	28	232
walnut	28	244
Isosoma	29	245
Ixodes	2	130
Ixodidæ	26	609
Jigger	16	146
Junonia cœnia	21	449
Katipo	16	315
	17	98
Katydids	13	160
	16	318
Lac	16	625
Lacewing	16	633
Lachnus strobi	2	57
Lady-birds	16	644
Lampyridæ	11	236
	17	736
Lampyris noctiluca	11	236
Languria mozardi	7	135
Lantern-fly	5	497
Larvæ, botfly	15	164
Lasius alienus	2	57
Laterigradæ	25	406
Latrodectus	17	98
Leaf-bug, four-lined	17	175
Leaf-hoppers	13	145
	17	175
Leaf-hopper, grape-vine	17	175
Leaf-insect	17	175
	21	715
Leaf-miner	17	175
Leaf-rollers	17	176
	17	309
peach-tree	21	448
Leaf-sewer	17	176
Leaf-tyer	13	434
	17	176
greenhouse	13	434
Leaf, walking	17	175
Lecanium hemisphæricum	13	434
Lecanium ilicis	24	346
Lecanium oleæ	13	434
	20	727
	24	347
Lema trilineata	22	445
Lemoniidæ	5	89
Leopard moth	17	304
Lepidoptera	5	88
	15	161
	17	307
	19	511
	29	730
Lepisma saccharina	4	547
Leptocoris trivittatus	22	153
Leptoglossus phyllapus	20	727
Lernea	11	279
Leucania unipunctata	2	308
Libellulidæ	9	296
Libytheidæ	5	89
Lice	17	691
bark	21	448
bird	3	727
	17	691
book	4	232
fish	11	279
plant	22	97
	23	699

Insects — cont'd	Vol.	Page
Lineweavers	25	406
Liotheidae	18	168
Lipara combycoides	22	96
Lipara pinetum	22	96
Lithostidæ	11	458
Locust	13	160
	16	318
Rocky Mountain	13	161
Seventeen-year	6	667
	24	613
Locustidæ	13	160
	16	318
Louse	17	691
bark	3	255
bee	3	422
body	17	691
flea	11	340
goat	12	742
green pea	21	436
head	17	691
jumping plant	16	246
oyster-shell bark	21	453
plant	10	259
whale	29	234
wood	29	486
Loxostege similalis	29	152
Lucanidæ	24	354
	25	470
Lucilia cæsar	11	347
Luna	19	511
Lycænidæ	5	88
	5	89
	17	308
Lycosa tarantula	26	266
Lygæidæ	6	548
	22	153
Lytta vesicatoria	4	89
Macrobasis unicolor	21	437
Macrodactylus subspinosus	13	145
Macroscelidæ	16	246
Macroscelidus typicus	16	246
Maggot	3	232
	18	115
apple	2	87
wheat stem	29	244
Malacodermidæ	25	238
Mallophaga	17	691
	18	168
	21	290
Malmignatte	18	168
Mantis	18	238
Mayfly	8	521
Mealy wing	18	477
Mecoptera	15	162
Megachile	17	175
Megalopygidæ	19	511
Melanoplus spretus	13	161
Melipona	14	354
Melophagus ovinus	21	288
Membranacci	21	290
Menopon pallidum	6	456
Meromyz americana	29	244
Mesonychidæ	18	687
Metal-marks	17	308
Mianabug	19	8
Micropterygidæ	19	511
Midge, columbacz	4	34
Millepede	19	117
	19	127
Mineola indiginella	23	219
Monohammus confusor	6	219
	22	96
Monomorium pharaonis	21	707
Monophadnus rubi	23	222
Mormolyce phylloides	12	174
Mosquito	19	502
	22	121
	22	761
	23	294

Insects — cont'd	Vol.	Page
Mosquitoes, development of	19	502
Moth	17	309
	19	510
ailanthus silk	19	511
angoumois grain	13	112
bee	3	422
bombycine	4	202
brown tail	15	164
	19	512
bud	2	98
bugong	4	700
Burnet	5	56
cabbage	5	116
cecropia	6	160
	21	453
clandestine	7	704
clothes	7	125
	13	112
codlin	2	87
	15	164
	21	453
dagger	8	391
dart	8	481
death's-head	8	542
egger	9	729
ermine	10	480
European pea	21	437
eye-spotted bud	21	453
gipsy	12	662
goat	12	742
grapevine plume	22	258
gypsy	13	594
	15	164
hawk	14	7
	17	307
	22	96
imperial	22	96
luna	6	160
	17	738
measuring-worm	17	309
Nantucket pine	22	96
owlet	17	309
	21	66
pantry	11	385
pickle	22	67
plume	22	258
polyphemus	22	335
swift	26	133
tiger	26	623
tussch	25	7
wax	3	422
web	5	116
wild silk	17	309
Muche	4	306
Mute-killer	18	238
Muscidæ	11	352
	19	614
Mutillidæ	2	10
Mycetophilidæ	11	236
	12	174
Mygale	19	659
avicularia	19	659
Myriapoda	19	117
	19	660
Myrmecocystus mellinger	14	353
Myrmicinæ	2	8
Mytilaspis citriocola	20	727
gloveri	3	255
	20	727
pomorum	3	255
	24	347
Mytilus edulis	19	654
Mytilus modiolus	19	654
Myzus persicæ	21	448
Nectarophora destructor	21	436
Nematis similaris	17	589
Nematus erichsonii hartig	16	747
Nematus ribesii	8	310
Nemocera	11	353

Insects — cont'd	Vol.	Page
Nepidæ	12	92
	29	36
Neuroptera	15	162
	20	101
	29	730
Noctua clandestina	7	704
Noctuidæ	17	309
	21	66
	22	363
Notolophus	10	259
Notonectidæ	12	92
	29	17
Nymphalidæ	5	88
	5	89
	17	308
Ocneria dispar	10	259
Odonata	9	295
	15	162
	20	585
Odontomachidæ	2	7
Odynerus	29	1
Œcanthus	27	35
nigricornis	23	222
niveus	27	35
Oiketicus abbotii	20	727
Oligochæta	20	662
Oncideres	6	219
cingulatus	29	478
Ooneodidæ	22	258
Opuntia cochinellifera	24	346
Orange dog	20	727
Orange tip	20	728
Orange-worm, Mexican	12	131
Orgyria leucostigma	10	259
Oribatidæ	26	609
Orthoptera	4	698
	15	162
	21	13
Orthorapha	11	354
Oscinidæ	29	244
Otiorhynchus picipes	5	116
Ox bot	21	68
Oxyptilus periscelidactylus	22	258
Pachytylus migratoroides	13	160
Paleacrita	2	87
Panorpidæ	24	426
Papilio	21	269
ajax	21	269
asterias	21	269
cresphontes	20	727
turnus	6	646
	21	269
philenor	21	269
troilus	21	269
Papilionidæ	5	89
	17	308
	21	269
	26	107
Parlatoria pergandei	20	727
Pedicularis	17	691
Pediculidæ	17	691
	21	290
Pediculus	6	456
capitis	17	691
Pedipalpida	2	130
Perla	4	547
Perlaria	25	684
Phalangida	2	130
Phaneus	9	404
Phasmidæ	17	175
	21	715
	28	232
Pheidole	2	9
Phengodes	11	236
Phlyctænia rubigalis	13	484
	28	106
Phorbia brassicæ	5	116
	23	127
Photinus	11	236
Photuris pennsylvanica	11	236

Insects — cont'd	Vol.	Page
Phylloptera oblongifolia	16	318
Phylloxera	13	145
	22	24
vastatrix	13	145
Phytocoris	4	698
Phytonomus punctatus	7	135
	29	160
Pieridæ	14	710
	17	308
	22	75
Pieris	6	646
manapia	22	96
rapæ	5	116
Platynus maculicollis	21	59
Platyptera	15	162
Plectoptera	15	162
Plodia interpuncetella	11	385
Plutella xylostella	5	116
Polistes	20	331
	29	1
Polyergus	2	9
Polygraphus sufipennis	3	255
Polyphemus	19	511
Polyrhachis	2	10
Pompilus formosus	26	266
Poneridæ	2	8
Ponerinæ	2	9
Porthetria dispar linnæi	13	594
Portuguese man-of-war	22	418
Prionidæ	22	600
Prionus	22	600
	29	478
brevicornis	22	600
laticollis	22	363
	29	478
Proboscidea	11	354
Pronuba	29	673
yuccasella	22	322
Pseudoscorpionida	2	130
	24	426
Psocus domesticus	4	232
Psychidæ	19	511
Psylla, pear-tree	21	454
pyricola	21	454
Psyllidæ	16	246
Pteronus ribesii	24	332
Pulex cheopis	4	653
Pulex irritans	11	340
Pulex serraticeps	11	340
Pulicarius	4	232
Pulvinaria innumerabilis	24	347
Pupipara	21	290
Pyractomena borealis	11	236
Pyralidæ	17	309
	19	511
	23	40
Pyralis costalis	14	16
Pyralis farinalis	11	385
Pyrophorus	11	236
noctilucus	8	290
	17	736
Pyrrhocoridæ	22	153
Pytcholoma persicana	21	448
Quadricornis	10	259
Queue rouge	23	87
Ranatra	29	36
Raphiglossa	29	1
Rascal leaf-crumpler	23	219
Rear-horse	18	238
Reduviidæ	22	115
Retinia frustrana	22	96
Rhagoletis pomonella	2	87
Rhabdocœlida	23	454
Rhizoglyphus	26	610
Rhopalocera	5	88
	17	308
	23	478
Rhopalosiphum violæ	13	434
	28	106
Rhynchites	29	159

Insects — cont'd	Vol.	Page
Rhyncophoræ	13	503
	29	159
Rhyncophorus palmarum	21	210
Rhyparochromus	6	548
Root worm, grape	13	145
Rosechafer	13	145
Rose-scale	13	434
Rutelinæ	13	34
Saltigradæ	25	406
Saperda candida	29	478
Samia cecropia	6	160
Saperda candida	2	87
	29	478
Saperda tridentata	10	259
Sarcophagidæ	11	347
Sarcopsylla	24	297
Sarcopsylla gallinacea	6	456
Saturniidæ	6	160
	17	309
	19	511
Sawyer	22	96
Saxicola œnanthe	29	245
Scale, black	13	434
	20	727
chaff	20	727
hemispherical	13	434
long	20	727
purple	20	727
orchard	13	434
red	20	727
	23	284
San José	21	453
white or fluted	20	727
Scarabaeidæ	13	34
	16	247
	18	461
	24	354
Scarabæus	9	404
Schizoneura lanigera	2	87
Schizoneura tessellata	2	57
Schiztocerca peregrina	13	160
Sciapteron robiniæ	17	589
Scolopocryptops sexspinosa	6	201
Scolytidæ	29	478
Scolytus	3	254
rugulosus	21	448
Semasia nigricana	21	437
Sesiidæ	19	511
Sharpshooter	24	663
Sheep-bot	24	676
Silk-worm	6	50
	25	7
Chinese	4	202
commercial	25	7
Silvanus surinamensis	13	112
Silver witch	4	547
Simulium invenustum	4	34
Simulium molestum	4	34
Simulium pictipes	4	34
Siphonaphera citrifolia	20	727
Siphonaptera	15	162
Siphonostoma	11	279
Sitophilus granarius	29	159
Skaters, pond	22	348
Skipper	25	76
Slugs	23	699
Slug, pear	21	454
	24	332
Solpugida	2	130
Sphingidæ	17	309
	19	511
Sphinx-moth, four-horned	10	258
Spinx quinque-maculata	22	445
Spider, red	23	285
Spiracles	25	418
Springtails	25	460
Stegamomantis carolina	18	238
Stegomyia	19	504

Insects — cont'd	Vol.	Page
Stegomyia fasciata	19	503
	23	244
	29	624
Sticks, walking	21	715
	28	232
Stigmæus floridanus	22	100
Staphylinidæ	23	728
Swallow-tails	21	269
Tampan	26	239
Telea olyphemus	22	335
Telea polyphemus	6	50
	6	160
	25	7
Telephoridi	25	238
Tenebrionidæ	11	385
Tenebroides mauritanicus	13	112
Tent caterpillars	26	436
Terebrantia	14	595
Termes arborum	26	444
Termes bellicosus	26	444
Termes bellicosus termitaries	26	444
Termes flavipes	26	444
Termites	15	164
	26	443
Territelariæ	25	406
Tetramorium cespitum	21	427
Tetranychus sexmaculatus	20	727
Tetranychus telearius	13	434
	28	106
Tetrapneumones	25	406
Tetrarhynchus telearius	26	609
Tetropium cinnamopterum	3	275
Thecla niphon	22	96
Theridiidæ	17	98
Theridium tepidariorum	25	408
Thermobia domestica	4	547
Thrips	26	596
	26	681
cerealium	26	596
Thyridopteryx	26	604
ephemeræformis	10	259
Thysanoptera	15	162
Thysanura	4	547
	26	605
Tiger-beetle	26	622
Tiger-moths	17	309
Tineæ	19	510
Tinea granella	13	112
Tineidæ	19	511
	26	641
Tineoidea	17	175
Tipulidæ	26	644
Tmetocera ocellana	2	88
Tomicus	3	254
calligraphus	22	96
Tortricidæ	17	309
	19	511
Tree-crickets	13	160
	23	222
	27	35
Tribolium ferrugineum	11	385
Trichius	11	394
Trichobaris trinotata	29	160
Trichobaris trinotatus	22	445
Trichodectes	12	742
Trichoptera	15	162
Trigona	14	354
mosquito	14	354
Triphleps insidiosus	11	394
Triungulin	4	89
Trombidiidæ	26	609
Tropæa luna	17	738
Tropæluna	25	7
Trypeta ludens	20	727
Trypetidæ	27	117
Tussock moth	27	211
Tussur	25	7

Insects — cont'd	Vol.	Page
Twig-girdler	29	478
Twig, walking	28	232
Tyroglyphidæ	26	610
Tyroglyphus longior	26	610
Tyroglyphus siro	26	610
Uloboridæ	27	52
Ura	4	306
Uraniidæ	19	511
Vanessa	23	277
	26	714
urticæ	20	97
Ver macaque	4	306
Vermin	28	16
Ver moyocuil	4	306
Vespa	29	1
crabro	14	385
Vespidæ	29	1
Vibrio tritici	29	245
Vine-pest	22	24
Wasp	29	1
fig	11	202
mud	19	548
sand	24	252
Water-boatmen	12	92
Water-scorpion	12	92
	29	36
Webworm	29	152
fall	21	453
Weevil	11	385
	29	159
bean	3	379
boll	21	437
	24	663
cabbage	5	116
fly	11	406
	13	112
granary	13	112
New York	21	448
nut	20	509
palm	21	210
pea	21	437
rice	13	112
white pine	22	96
Wheatear	29	245
Worm, bag	3	44
fagot	10	711
grass	13	153
Morellos orange	20	727
paper	13	651
pickle	22	67
tomato	22	445
web	2	87
Xyleborus cælatus	22	96
Xyleborus pyri	21	454
Xyliner	2	88
Xylocopa virginica	5	654
Xyloterus	3	254
fuscatus	3	254
Yam-a-mai	29	610
Yellow-jacket	29	628
Zygænidæ	19	511

Molluscs

Molluscs — cont'd	Vol.	Page
Abalone	1	6
Acephala	19	328
	29	730
Acorn-shell	1	97
Agate-shell	1	233
Ammonites	6	218
Amphineura	19	328
Ampullariæ	25	143
Ancylus	22	348
Anodonta	12	93
Anomia	4	27
Aplysia	24	474
leporina	24	474
Apporrhais pespelecani	21	484
Apple-shell	2	89
Arca	2	147
	4	27
Argonaut	2	224
shell	24	684
Arion fuscus	25	142
Asiphonata	2	400
Aspergillum	4	28
Astarte	2	443
Atrypa reticularis	4	381
Auger-shell	2	540
Auriculidæ	25	142
Aviculidæ	21	455
Balanus	3	71
Basommatophora	25	142
Bêche-de-mer	2	567
Bivalves	4	27
Brachiopoda	4	380
Buccinidæ	4	655
Buccinum	4	655
Bulimulidæ	16	699
Bulimus	5	6
Bulla	5	14
occidentalis	4	651
Byssus	4	27
Calyptræa	5	242
Calyptreidæ	5	242
Cancellaria	5	490
Carapace	5	584
Carolinidæ	22	749
Carrier shell	5	671
Cassis	16	434
Cephalopoda	19	329
	29	730
Cephalula	6	218
Chæpleura	6	570
Chama	6	257
Chamidæ	6	257
Chank-shell	6	288
Chiton	6	570
Chitonidæ	6	570
Cistudo	4	368
Clam	7	31
blood	4	110
giant	24	686
razor	23	242
Clavagella	4	28
Clione papilionacea	22	749
Cockle	7	187
Conch	7	461
Cone-shells	7	485
Conidæ	7	485
Conus	7	601
Corbis	4	27
Cowry	8	139
Cryptochiton	6	570
Cuttlefish-shells	24	684
Cyprinidæ	2	443
Cythere	8	375
Cytherea	8	375
Date-shell	8	490
Dentalium	8	688
Dibranchiata	6	218
Diseina	4	381
Dolichopodidæ	9	235
Doridæ	24	475
Dreissena	9	325
Dreissenidæ	9	325
polymorpha	9	325
Drill	9	336
oyster	9	336
Ear-shell	9	485
Ensis americana	23	242
Flustra	24	475
foliacea	24	475
Foot pelicans	21	484
Frog-shell	12	118
Fusidæ	12	203
Fasciolaria	11	50
Fish, date	8	490
Gastrochæna	4	27
Gastropoda	12	334
	19	328
	29	730
Gastropod shells	24	684

Mollusca — cont'd	Vol.	Page
Glandina	12	680
truncata	25	142
Glottidia pyramidata	4	381
Glycimeris	4	27
Goniatites	6	218
Gonioceras	13	46
Gonioceras anceps	13	46
Haliotidæ	9	485
Haminea solitaria	4	651
Hares, sea	24	474
Harp-shell	13	720
Helicidæ	14	78
	19	699
	25	142
nemoralis	16	699
vermiculata	16	699
Helix	14	81
albolabris	25	143
pomatia	25	143
Horn-wrack	24	475
Hyaleidæ	22	749
King conch	16	434
Leda	17	215
Lima	4	27
Limacidæ	25	142
Limacinidæ	22	749
Limax maximus	25	142
Limæa	17	443
	25	142
stagnalis	22	348
Limnæidæ	22	348
	25	142
Limpet	17	444
cup-and-saucer	8	304
Lingula	4	380
Lithodomus	4	27
Loligo	6	218
Loricata	17	662
Lucina	4	27
Macoma	4	27
Mactra	4	27
Melampus lineatus	25	142
Melaniidæ	23	143
Meleagrina margaritifera	21	455
Meleagris margaritifera	21	457
Mitre-shell	19	272
Modiola plicatula	19	654
Mollusca	19	327
classification	19	328
details of structure	19	327
Molluscoida	19	329
Mollusks, lamellibranch	14	26
Moroteuthis	6	218
Mucula	4	28
Murex	19	605
brandaris	23	30
trunculus	23	30
Muricidæ	23	30
Mussels, fresh-water	12	92
	21	455
marine	19	654
Mya	4	27
Natica	19	724
Nautilidæ	19	783
Nautilus	19	783
pompilius	6	218
	19	783
umbilicatulus	6	218
Nudibranchiata	20	482
Octopoda	20	575
Octopodidæ	20	575
Octopus	9	39
	20	575
bairdii	20	575
vulgaris	20	575
Olive-shell	20	665
Ommastrephes	6	218
Operculum	20	705
Orthalicidæ	16	699
Orthoceras	6	218

Mollusca — cont'd	Vol.	Page
Ostrea	4	27
virginiana	21	82
Oysters	21	81
culture of	21	82
food of	21	83
mangrove	21	82
pearl	21	457
raccoon	23	107
reproduction of	21	82
saddlerock	24	99
seed	24	99
tree	21	82
true pearl	21	455
Paludinidæ	25	143
Panopæa	4	27
Pecten	4	27
irradians	24	348
Pectinidæ	21	464
	24	348
jacobæus	24	348
magellanicus	24	348
Pelecypoda	4	27
	19	328
	21	195
	21	482
Pelican's foot	24	484
Petricola	4	28
Philomycus carolinensis	25	142
Pholas	4	27
	4	28
Physa	22	348
heterostropha	22	349
	25	142
Piddock	22	72
Pinna	22	103
cyclocardia	4	27
nobilis	22	103
Placuna placenta	24	686
Planorbis	22	348
	25	142
Pleuroceridæ	25	143
Polyzoa	4	381
	7	286
	14	26
	22	339
Pteroceras aurantias	24	427
lambis	24	427
Pteropoda	22	749
shells	24	684
Pulmonata	22	796
Pupidæ	16	699
Purpura lapillus	23	30
Purpurea patula	23	30
Quohog blood	4	110
Razor-fish	23	242
Rhynchonella	4	381
Roaring buckie	23	563
Sabella	4	381
	24	80
Saxicava	4	27
Scalaria	29	192
Scallop	24	348
Scaphopoda	19	328
Sea-lemon	24	475
Sea-mat	24	475
Shell, bubble	4	651
fig	11	202
mason	5	671
purple	23	30
scorpion	24	427
spider	24	427
top	26	699
wing	22	103
Slug	25	142
sea	24	477
Snail	25	142
agate	1	233
cellar	6	173
desert	9	6
glass	12	710
land	16	698

Mollusca — cont'd	Vol.	Page
pond	22	348
sea	14	649
Snailbore	9	336
Solenidæ	23	242
Spirula	6	218
peronii	6	218
Spondylus	4	27
Squid	25	465
flying	11	408
	25	465
Stenogyridæ	16	699
Strombus	16	434
gigas	16	434
pugilis	16	434
Stylommatophora	25	142
Succineadæ	16	699
Terebratula	26	440
Terebratulina	4	380
Teredo	26	441
gigantea	26	441
navalis	26	441
	29	239
Testacellidæ	25	142
Testudo	4	368
Tetrabranchiata	6	218
	19	783
Trepang	2	567
Tridacna	24	686
gigas	4	28
	21	482
Trigonia	4	27
	27	56
Triton variegatus	27	106
Trumpet shell	27	106
Turbinella pyeum	6	288
Turbinidæ	26	699
Unio	4	28
Unionidæ	12	92
	21	455
	27	290
Valvatæ	25	143
Venus	4	27
Vermetidæ	29	558
Vivipara	25	143
Wentletrap	29	192
Whelks	4	655
	29	234
Whelk, red	23	563
Wingshell	29	396
Winkle	29	396
Worm-shell	29	558
ship	26	441
Zonites milium	25	143

Worms

Abraxas grossulariata	18	481
Abraxas nisopteryx pometaria	18	481
Acroura	4	566
Ancylostoma duodenale	14	364
Angiostoma nigrovenosum	20	69
Anguillulidæ	20	69
Ankylostomes	14	364
Annelida	1	636
	2	3
chætopoda	21	290
hirudinea	21	290
Annulata	2	3
	6	243
Anquillula aceti	9	713
Aphroditæ	24	475
Archi-annelida	2	3
Army-worm	2	328
Articulata	2	361
Ascaris lumbricoides	20	69
	23	722
Ascaroidea	20	69
Ascidiacea	27	145
Ascidians	14	26
	27	145

Worms — cont'd	Vol.	Page
Bollworm	4	193
Bothriocephalus	4	313
latus	4	313
Cankerworm	2	89
	5	501
	18	481
Cestoda	6	232
	22	240
Chaetognatha	20	68
Chætopoda	1	636
	2	3
	6	243
Cœlenterates	14	26
	22	240
	25	652
Currant-worm	24	332
Cut-worms	7	704
	8	338
	13	434
	21	437
Cymatophora pampinaria	18	481
Cysticercus	8	374
Dasee-worm	25	7
Dewworm	9	50
Dinophilea	27	80
Diplozoon	9	141
Diporpa	9	141
Dracunculus medinensis	20	69
Earthworm	9	499
Echinococcus	9	542
Eelworm	9	713
Errantia	10	484
	22	327
	24	475
Eunice	21	219
fucata	21	219
viridis	21	219
Fidonia plumistaria	18	481
Filaria medinensis	13	539
Filaroidea	20	69
Flatworms	11	336
free-living	22	240
Flukes	22	240
Gastrotricha	20	68
	27	80
Gephyrea	1	636
	2	3
	12	492
Gigantorhynchus gigas	20	67
Glossiphonidæ	17	228
Gordiacea	1	635
	20	67
Guinea-worm	13	539
Gymnolæmata	22	339
Hairworm	13	625
Herpobdellidæ	17	228
Heteronereis	20	79
Hirudinea	1	636
	2	3
	14	204
	17	227
Hirudinidæ	17	228
Hookworm	14	364
New World	14	364
Old World	14	364
Hybernia tiliaria	18	481
Leeches	17	227
	21	288
fish	17	228
jawed	17	228
snail	17	228
Limnatis nilotica	8	218
Linguatula	17	460
Lithphyta	29	730
Lobworm	6	243
Looper	18	481
Looss	14	364
Macrobdella decora	17	228
Mamestra picta	5	116
Metazoa	1	631
	1	634

Worms — cont'd	Vol.	Page
	1	635
	7	286
	18	711
	22	694
Mouse, sea	24	475
Necator americanus	14	364
Nemathelminthes	20	67
	23	722
Nematoda	1	635
	20	67
	20	68
	23	722
Nemertinea	1	635
	22	240
Nereidæ	20	79
Nereis	20	79
virens	20	79
Oligochæta	9	499
Oxyurias vermicularis	20	69
	23	722
Oxyuris	21	79
vermicularis	20	69
	21	79
	23	722
Palolo	21	219
Phlegethontius carolinus	26	681
Pinworm	23	722
Planarians, land	22	150
marine	22	150
Plathelminthes	6	232
Platoda	1	635
Platyhelminthes	22	240
Polychæta	22	327
Polycladida	27	169
Polyclads	22	150
Rhabditis nigrovenosa	21	288
Rhabdocœlida	27	169
Roundworms	21	288
Scolecida	24	424
Sidentaria	22	327
Serpula	24	601
arenicola	6	243
Snake, hair	13	625
Span-worm	18	481
Spiruroidea	20	69
Strongyloidea	20	69
Tænia solium	4	313
Tapeworms	14	26
	22	240
	26	260
Testacea	29	730
Tobacco-worm	26	681
Trematoda	22	240
Trichinellidæ	20	69
Trichuris trichiura	20	69
Tricladida	27	169
Trochelminthes	27	80
Turbellaria	22	150
	27	169
Urnatilla gracilis	22	339
Vermes	28	16
Wireworms	18	434
Worm, corn	4	193
Inch	18	481
intestinal	29	730
leeches	17	228
measuring	18	481
planarian	22	150
Worms	29	559

VERTEBRATES

Vertebrates — General

Vertebrates — General — cont'd	Vol.	Page
Aardvark	1	3
	9	580
Aardwolf	1	4
Acrania	1	102
Acrobates pygmæus	21	704
Addas	1	130
Addax	1	130

Vertebrates — General — cont'd	Vol.	Page
Æpyceros melampus	21	209
Agouara	23	107
Agouti	1	239
Agouty	1	239
Aguti	1	239
Alcelaphus bubalinus	4	651
Alcephalus albifrons	4	80
Alces	23	773
Alpaca	1	435
	9	190
	17	547
Amaræcium	2	380
Amphibia	1	586
	14	640
	28	618
Amphioxus	1	588
Animals, domesticated	1	710
fur-bearing	12	175
venomous	28	6
Anoa	2	4
Anomaluridæ	24	347
Ant-bear	2	14
Ant-eater	2	14
	9	580
banded	8	489
scaly	18	218
spiny	9	541
Antelope	2	15
	3	515
	9	190
	13	734
	25	454
African	23	562
Baker's	3	62
Beatrix	3	387
four-horned	11	549
prong horn	9	191
roan	23	562
sable	24	85
Anthropoid apes	2	20
Anthropopithecus niger	6	515
Antilocapra americana	22	654
Antilocapridæ	22	655
	23	773
Antilope arundinaceus	23	516
Antilope cervicapra	24	308
Antilopidæ	4	409
Antilopinæ	2	15
	4	357
Antiodactyla	2	36
Antrozous pallidus	28	43
Aoudad	2	51
Aoul	2	51
Apar	2	52
Ape	2	53
anthropoid	2	20
Barbary	3	232
Aplodontia	9	190
Appendicularia	27	145
Arctomys	29	498
Arctonyx collaris	24	250
Argali, Great Siberian	24	675
Armadillo	2	263
	9	580
Arna	2	309
Arnee	2	309
Artiodactyla	2	369
	5	258
Arui	2	51
Ascidian	2	380
Asinus	2	409
Ass	2	409
	14	397
African, wild	14	396
Asiatic, wild	14	396
Ateles	2	490
	19	360
	25	405
Atherura	22	373
Aurochs	2	555

Vertebrates — General — cont'd	Vol.	Page
Axis	2	683
Aye-aye	2	684
Babirussa	3	6
Baboon	3	6
	19	360
Badger	3	34
	19	655
sand	24	250
South African	23	224
Balæna	3	64
	29	231
mysticetus	29	232
Balænoptera musculus	23	242
Balænoptera rostrata	23	242
Bandicoot	3	139
Banxring	27	36
Barasingha	26	108
Barb	3	229
Bassaris astuta	23	107
Basset-hound	3	318
Bat	3	325
	11	355
	22	577
fruit	12	131
leaf-nosed	17	176
naked	19	684
red	23	277
Bay cat	6	24
Bear	3	383
black	3	384
barren-ground	3	384
	3	385
blue	3	384
brown	3	384
cave	6	144
	9	190
cinnamon	3	384
grizzly	3	384
	3	385
ice	3	384
Kadiak	3	384
Malayan	18	162
Malayan sun	3	385
polar	3	384
sea	2	567
Sitka	3	385
sun	18	162
Bearcoot	3	550
Beaver	3	397
Beden	3	413
Behemoth	3	448
Beisa	3	450
Beni-Israel	3	515
Berardius	29	233
Big-horn	3	693
Nelson's	3	693
Stone's	3	693
types	24	675
Binturong	3	717
Birds	3	728
	9	191
	19	49
	29	730
Bison	4	20
americanus	20	411
Blackbuck	4	40
Blackhead	4	41
Blacktail	4	47
	19	553
Blarina brevicauda	24	758
Blaubok	4	71
Blesbok	4	80
	13	734
Bloody sweat	14	208
Bluebuck	4	129
Boar, wild	4	135
	26	138
Bobac	4	137
	18	306
Bolteuia	2	380

Vertebrates — General — cont'd	Vol.	Page
Bohor	4	163
Bongo	4	214
Bontebok	4	222
	13	734
Borzoi	4	284
Bosbonasus	2	555
Boschbok	4	286
Boschvark	4	286
Boselaphus tragocamelus	20	348
Bos grunniens	29	605
Bos mindosensis	26	232
Bouquetin	4	345
	14	616
Bovidæ	2	15
	4	357
	20	411
	22	654
	23	773
Bovinæ	4	357
	21	68
Brachyurus	24	175
Bradypodidæ	25	100
Bradypus tridactylus	26	134
Bramatherium	4	409
Brocket	4	571
Brodypodidæ	9	580
Broncho	4	578
Bruang	3	385
Buansu	4	651
Bubale	4	651
Bubalis	4	651
Bubalus	13	734
Buck	4	665
Buffalo	4	20
	4	693
North American	20	411
mud	19	547
Bufo	4	697
Buhrel	3	48
Bulau	4	716
Bull	5	8
Bunodont	5	25
Burrhel	24	675
Bush-buck	4	286
	5	73
Bush-dog	5	73
Bush-pig	23	549
Bushtit	5	74
Cacomistle	5	130
Cœlogenys paca	21	86
Callithrix	24	110
Callorhinus	24	482
Camel	5	257
	9	6
	9	190
Camelidæ	5	258
Camelopard	12	662
Camelus	5	258
Campanularians	5	276
Canidæ	5	500
	5	642
	9	223
	9	232
	11	565
	29	438
Canis	9	189
	29	438
albus	29	439
aureus	15	573
dingo	9	125
hodophylax	29	439
langifer	29	439
latrans	29	439
lupus	29	439
mexicanus	29	439
niger	29	439
nubilus	29	439
occidentalis	29	438
pallipes	29	439

Vertebrates — General — cont'd	Vol.	Page
rufus	29	439
Canisor fennecus zerda	11	117
Capra ægagrus	12	739
Capra falconeri	18	300
	12	739
Caprinæ	4	357
Caproclus capræa	23	625
Capuchin	5	575
	18	8
Capybara	5	575
Carabao	5	575
Caracal	5	582
	11	102
Carcajou	29	445
Cariacou	5	608
Caribou	5	611
	23	333
Arctic	5	611
barren ground	23	334
rangifer	5	611
woodland	5	611
Cat	6	23
	11	102
Abyssinian	6	26
American tropical	29	311
Archangel	6	27
Caffre	6	24
Egyptian	6	24
flat-headed Malayan	6	24
Manx	6	26
	18	250
marbled	6	24
margay	6	27
palm	21	210
Pampas	13	152
panther	21	250
red	11	102
Russian	6	27
spotted	6	24
striped fishing	6	24
weasel	8	630
Catamount	6	44
Cattle	6	109
Brahman	21	68
Highland	14	185
Indian humped	15	29
white	29	270
Cavicornia	4	357
Cavy	6	152
Ceatetes	26	249
Cebidæ	6	158
	19	359
Cebus capucinus	24	111
	24	290
Cebus hypoleucos	24	290
Centetes ecaudatus	26	249
Centetes madagascariensis	26	249
Centetes spinosus	26	249
Cephalolophus	9	389
doriæ	9	389
fentinki	9	389
grimmi	9	389
monticola	9	389
nalalensis	9	389
sylvicultor	9	389
Cercolabes	27	36
Cercoleptes	23	107
Cercopithecidæ	6	223
	18	8
	19	360
Cercopithecus	13	425
diana	9	70
patas	21	379
Cervicapra	23	336
Cervidæ	6	229
	19	435
	23	773
Cervus	23	773

Vertebrates — General — cont'd	Vol.	Page
Cervus campestris	21	221
canadensis	28	256
caspicus	24	806
davidianus	8	503
duvaucelli	26	108
elephas	2	44
	23	280
sika	24	806
taevanus	11	492
unicolor	24	220
Cetacea	6	232
Chacma	6	241
Chamois	6	268
Chameck	6	266
Chati	6	354
Chaus	6	24
	6	367
	11	102
	16	249
Cheetah	6	375
	11	102
Cheiromys	6	376
Cheironectes variegatus	29	614
Cheiroptera	6	376
	22	577
Cheta	6	375
Chevrotain	6	432
Chickaree	6	454
	25	467
Chilopoda	6	512
Chimpanzee	6	515
	13	66
Chinche	6	548
Chinchilla or Eriomys	6	548
Chinchilla lanigera	6	548
Chinchillidæ	6	548
	28	131
Chinkara	6	560
Chipmunk	6	562
	13	61
	25	467
Chirogale	6	566
coquereli	6	566
Chiromyidæ	17	282
Chiru	6	569
Chitra	2	683
Chlamydophorus	6	574
Choloepus didactylus	25	100
Chordata	6	592
	14	635
	27	145
Chousinga	6	594
Chousingha	11	549
Chowchow	6	595
Chrysothrix	19	360
	25	467
Civets	6	725
	23	223
Civet, palm	21	210
Coassus nemorivagus	4	571
Coassus rufus	4	571
Coati	7	172
Colocolo	7	274
Colugo, Cobego or Kaguan	7	333
Condylarthra	14	610
Conepatl or Conepate	7	485
Connochetes	12	739
Cony or Coney	7	486
	7	619
	20	332
Corsac or Adive	8	23
Corynorhinus macrotis	28	43
Cottonmouse	8	85
Cottontail	13	708
Cougar	8	92
Couly	27	36
Cow	8	133
Coyote	8	142
Coypu or Nutria	8	142

Vertebrates — General — cont'd	Vol.	Page
Crocidura cærulea	19	653
	24	758
Crossapus fodiens	24	758
Cross-fox	8	236
Cryptoprocta ferox	11	526
Cuscus	8	333
Cycloturus didactylus	2	14
Cynailurus	11	102
Cynocephalus	8	366
leucophæus	9	336
Cynomys	22	507
ludovicianus	22	43
Cynthia pyriformis	2	380
Cyon primærus	4	651
Cystophora cristata	14	362
	24	480
Dalli	3	385
Dama	8	425
	23	773
Dassie	8	489
	27	281
Dassy	8	489
Dasypodidæ	9	580
Dasyure	8	489
Dasyurus	26	280
Dasypodidæ	2	263
Dasyprocta	8	489
Daubentonia madagascarensis	2	684
Deer	8	583
Caspian	24	806
David's	8	503
Eld's	10	59
fallow	10	735
false	8	92
Formosan	11	492
mule	19	553
pampas	21	221
ravine	23	235
red	2	44
	23	280
roe	23	625
swamp	26	108
Deer-mouse	8	584
Delphinidæ	16	412
Delundung	8	630
Dendrolagus	8	677
Dendrobates	8	676
Dendrohyrax	14	610
	27	281
Desmodus rufus	27	662
Dhole	9	53
Dicotylidæ	21	461
Dictoyles torquantus	21	461
Didelphyidæ	20	614
Didelphys gigantea	16	292
Dicotyles labiatus	21	461
Didelphia	9	91
Dingo	2	566
	9	125
Diphylla ecaudata	27	662
Dipodomys	9	189
Diprotodontia	18	331
Dipus ægypticus	16	17
Dog	9	223
cape hunting	5	547
crab-eating	8	143
pariah	21	299
raccoon	23	107
water	19	547
Dogs, wild	9	232
Donoucoli	9	260
Donkey	2	409
Dormouse	9	266
Douc	9	276
Douroucouli	9	283
Drill	9	336
Duckbill	9	380
Dugong	2	567
	9	388

Vertebrates — General — cont'd	Vol.	Page
Duiker-bok	9	389
Duplicidentata	17	309
Duyong	9	388
Dzeren	9	471
Dziggetai	2	409
	9	471
Echidna	9	541
Echidnidæ	9	541
Edentata	2	14
	9	580
Elaphure	10	48
Eland	10	48
Elephant	10	221
white	29	271
Eliomys nitela	9	266
Elk	10	250
	19	435
	28	256
Enhydra	5	642
Enhydrinæ	19	655
Enhydris	21	48
	24	475
Entelodonts	10	399
Equidæ	14	385
	10	460
Equus	2	409
	29	690
asinus	14	396
burchelli	14	396
caballus	14	385
hemionus	14	396
quagga	14	396
	23	54
zebra	14	396
Erinaceidæ	14	63
Ermine	10	480
	19	655
Erythrocebus patas	21	379
Eucaladia	4	566
Eutamias	25	467
Eutheria	10	586
	18	330
Felidæ	5	642
	11	102
	17	779
	26	622
	29	309
Felis	9	189
	11	102
borealis	29	310
caligata	29	310
canadensis	29	310
chaus	16	249
concolor	9	190
marmorata	26	623
maculata	29	310
onca	15	596
ornata	16	249
pajero	21	221
pardalis	20	569
rufa	29	310
serval	24	604
tigris	26	622
uncia	25	151
Fennec	11	117
Feræ	11	118
Ferret	11	140
Ferruginous banxring	27	36
Filander	11	204
Fish	11	266
	23	618
Fisher	11	282
	19	655
Fishing cat	11	293
Fissipedia	5	641
	5	642
Fitch	22	300
Fitchew	22	300
Flying fox	11	408
	12	131

Vertebrates — General — cont'd	Vol.	Page
Foussa	11	526
Fox	11	565
bat	11	408
	12	131
black	11	265
blue	11	565
cape	5	544
cross	11	565
gray	11	565
kit	11	565
	22	507
prairie	22	597
red	11	565
silver	11	565
	25	15
swift	16	463
Fur seal	12	176
Galago	12	230
Galictis barbera	26	304
Gaper	12	276
Gaur	12	342
Gayal	12	348
Gazella bennetti	23	235
Gazelle	12	349
	25	454
dorcas	9	263
Gecko, Malayan	11	408
Gemsbok	12	367
Genet	12	387
Geogale aurita	22	439
Geomyidæ	13	61
Geomys tuza	13	61
Geomys bursarius	13	61
Ghorkhar	2	409
Gibbon	12	641
Giraffe	12	662
Glires	23	619
Glutton	12	731
	29	445
Gnu	12	739
Goat	12	739
angora	12	740
antelope	12	741
	22	654
cashmere	12	741
milch	12	741
mohair	19	292
Rocky Mountain	22	654
	23	612
Gopher	13	60
	22	508
gray	13	61
Goral	13	61
Gorilla	18	66
Gradientia	27	597
Gran pesce	13	120
Grayback	13	167
	29	232
Gressigrada	24	480
Ground hog	13	492
	18	306
	29	493
Grison	13	482
Guemal	13	524
Guenon	13	524
Guenons, African	19	360
Guerza	13	524
Guib	13	531
Guinea-pig	6	152
	13	539
Gulo luscus	29	445
Hair-seal	13	688
Halecomorphi	14	642
Halichærus grypus	24	480
Halicora australis	2	567
	9	389
Halicore	9	388
Hamadryad	13	652
Hapalidæ	19	359
Haplodon rufus	24	627

Vertebrates — General — cont'd	Vol.	Page
Hare	9	190
	13	707
Belgian	23	105
common	13	708
marsh	13	708
mountain	13	708
prairie	13	708
varying	13	708
water	13	708
Harpyias	12	131
Hart	13	734
Hartbeest	13	734
Hedgehog	14	63
Helarctos	3	385
Hemitragus jemlaicus	26	216
Herpestinæ	14	634
Heteromyidæ	16	293
Hippopotamus	14	203
Hippotragus bakeri	4	71
Hippotragus equinus	4	71
	23	562
Hippotragus leucophæus	4	71
Hippotragus niger	4	71
	24	85
Histricina	22	373
Hog-badger	24	250
Hog-deer	2	683
Hominidæ	14	342
Homo sapiens	14	342
Honey-badger	14	353
Horse	9	190
	14	385
przewalsky's	14	396
Huanaco	14	462
	17	547
Humpbacks	29	231
Huron	13	482
Hyena	14	589
brown	14	589
spotted	14	589
Hyena-dog	14	590
Hyenidæ	5	642
Hylobates	12	641
syndactylus	12	641
Hyperoödon rostratum	29	233
Hyracidæ	27	281
Hyracoidea	14	610
	27	281
Hyrax	14	610
	20	332
	27	281
Hystricidæ	22	373
Hystricomorpha	26	620
Hystrix cristata	22	373
Ibex	14	616
Ichneumon	14	634
crab-eating	8	144
Impalla	21	209
Inia	15	134
Jackal	15	573
Jack-rabbit	13	708
Jaguar	11	102
	15	596
Jaguarondi	15	596
Jennet	16	15
Jerboas	16	17
Jumbo	16	246
Jumping hare	16	246
Jungle-cat	6	24
	16	249
Kabalassou	16	274
Kabassou	16	274
Kakar	19	598
Kanchil	16	290
Kangaroo	2	566
	9	189
	16	292
arboreal tree	16	292
giant	16	292
red	16	292

Vertebrates — General — cont'd	Vol.	Page
rock	16	292
mice	16	293
rats	9	189
	16	293
Kiang	2	409
dziggetai	16	398
Killer	16	412
Kinkajou	23	107
Kit-fox	16	463
Klipspringer	16	473
Koala	16	502
Koodoo	16	520
Koulan	2	409
Kulan	16	398
Lagomyidæ	17	309
Lagidium	6	548
Lagostomus	6	548
trichodactylus	28	131
Lalande's dog	5	544
Lama	14	462
	16	664
glama	17	547
vicunna	28	76
Lagenorhynchus albirostris	22	376
Langur	16	732
Lasionycterus noctivagans	3	325
Lasiurus boreales	23	277
Lasiurus cinereus	3	325
Latax lutris	24	475
Leaf-monkey	17	176
Leche	17	209
Lemming	17	279
mice	17	280
Lemuria	17	282
Lemuridæ	17	282
Lemuroidea	22	577
Lemurs	11	355
	17	282
	22	577
Leonine	11	102
Leopard	11	102
	17	303
cat	6	24
	17	304
seal	17	304
snow	25	151
Leporidæ	17	309
	23	104
Lepus	9	190
	13	708
equaticus	13	708
campestris	13	708
cuniculus	23	104
hispidus	23	104
palustris	13	708
timidus	13	708
variabilis	13	708
Lesser finner	29	232
Linsang	8	630
	17	462
Lion	11	102
	17	467
mountain	8	92
	9	190
Llama	5	258
	9	190
	17	547
Loris gracilis	17	283
Lutra vulgaris	21	48
Lutrinæ	19	655
	24	475
Lutra canadensis	21	48
Lynx	11	102
	17	779
	29	309
Lyre-bat	17	783
Macacus rhesus	23	457
Macacus silenus	28	254

Vertebrates — General — cont'd

	Vol.	Page
Macaque	18	8
	19	360
Machairodus	11	102
Macropodidæ	16	292
Macropus bruni	11	204
giganteus	16	292
major	2	566
ruficollis	28	235
rufus	16	292
Madoqua	18	106
Malayanus	3	385
Malbrouk	18	163
Mamber	18	173
Mampalon	18	181
Manatee	18	195
Manatus	9	388
Mandrill	18	207
Man-eater	18	192
Mangabey	18	209
	19	360
Manis	18	218
Manul	6	24
	18	242
Mapurito	18	261
Margay	18	280
Marikina	18	287
	18	306
Markhor	18	300
Marmoset	18	305
	19	359
silky	18	305
Marmot	13	492
	18	306
European	18	306
Marmota monax	29	493
Marsupialia	18	330
Marsupials	9	189
Marten	18	332
	19	655
American pine	18	332
Pennant's	21	517
Siberian sable	18	332
stone	18	332
sweet	18	332
Mastiff	18	419
Matin	18	438
Mazama	23	773
Meerkat	26	87
Megacheiroptera	3	325
Megachiroptera	12	131
Megaptera	29	231
Melinæ	19	655
	25	79
Mellivora indica	14	353
Mellivord copensis	23	224
Melursus labiatus	3	385
Menopome	18	636
Mephitinæ	19	655
Mesonyx	18	687
Mesoplodon	29	233
Mice, field	9	190
	11	182
pocket	9	189
Microcheiroptera	3	325
Microtinæ	28	173
Microtus	9	189
	9	190
	29	487
Midas	19	39
Miniver	19	195
Mink	19	195
	19	655
Mithan	12	348
Mohr	19	309
Mole	19	311
cape	13	27
golden	13	27
marsupial	18	330
Mona	19	335
Monachus	19	359

Vertebrates — General — cont'd

	Vol.	Page
Mongoose	19	565
Monkey	9	189
	19	359
Bengal	23	457
bonnet	18	8
capuchin	19	360
Diana	9	70
dorocouli	19	360
entellus	10	399
	18	8
golden	19	360
green	13	425
	19	360
hooded	19	360
howling	19	360
king	16	438
midas	19	39
Negro	19	360
	20	56
New World	19	359
nose	22	625
Patas	21	379
proboscis	19	360
sacred	24	94
spider	19	360
	25	405
squirrel	25	467
woolly	19	360
Mono	19	362
Monodelphia	19	364
Monotremata	19	370
	22	694
Moose	19	435
American	19	435
Moschinæ	19	650
Mouflon	19	520
Mouse	19	533
flying	21	704
meadow	11	183
opossum	20	715
pocket	22	270
pouched	21	715
red-backed	23	277
Mule	19	572
Mulita	19	555
Mungoos	19	565
Mungoose	14	635
Muntjac	19	597
Muridæ	11	182
	19	652
Mus	9	189
arboreus	27	36
sylvaticus	29	486
Muscardine	9	266
Muscardinus avellanarius	9	266
Musimon	19	520
Musk-deer	19	650
Musk-ox	19	651
Muskrat	19	652
Indian	19	653
Musquash	19	652
	19	653
Musrattus	23	224
Mustang	4	578
	19	655
Mustela	11	140
americana	24	84
pennanti	11	282
putorius	22	300
zibellina	24	84
Mustelidæ	5	642
	19	655
	29	130
	29	445
Mustelinæ	19	655
Mycetes	19	360
Mydaus meliceps	26	327
Myodes lemmus	17	279
Myomorphia	23	620
Myotis lucifugus	28	43

Vertebrates — General — cont'd

	Vol.	Page
Myoxidæ	9	266
Myoxis glis	9	266
Myrmecobius fasciatus	8	489
Myrmecophagidæ	2	14
	9	580
Mystacoceti	6	233
	29	230
Mystelidæ	25	79
Nakong	19	685
Nasalis larvatus	22	625
Nasua	23	107
Nata	20	299
Nemorrhœdus bubalinus	24	597
Nemorrhædus goral	13	61
Neobalæna marginata	29	233
Neotoma	20	332
	29	487
pennsylvanica	29	487
Nesodom	26	737
Niata	20	299
Nictipithecus	19	360
Nilgai	20	348
Nodiak	20	388
Nyan	20	524
Nyctereutes procyonides	23	107
Nycteridæ	17	176
	17	783
Nycticebus humeralis	28	43
Nyctipithecus	9	260
Ocapia johnstoni	20	633
Ocelot	20	569
	21	250
	26	622
Ochotona	20	332
Octodont rodents	9	189
Odocoileus	23	773
Odontoceti	6	233
	22	375
	29	230
Okapi	20	633
Onager	2	409
Onotragus leche	17	209
Oorial	20	697
Opossum	9	189
	20	714
Orang-outang	13	66
	20	729
Orangutan	13	66
	20	729
Orcaella	22	376
Orcinus	16	412
orca	13	120
	16	412
Oreamnos kennedyi	23	612
Oreamnos montanus	22	655
	23	612
Oreotragus saltator	16	473
Ornithopoda	21	8
Ornithoryncus	22	241
Ornithorhynchus anatinus	2	566
Ornithorhynchus paradoxus	9	380
Oryx	21	14
Otaria cinerea	2	567
Otariidæ	22	103
Otter	19	655
	21	48
American	21	48
European	21	48
sea	19	655
	21	48
shrew	21	49
Ouistitis	18	305
Oukari	21	50
Ounce	21	52
	25	151
Ovibovinæ	4	357
Ovinæ	4	357
Ovis	21	63

Vertebrates — General — cont'd	Vol.	Page
ammon	24	675
cervina	3	693
hodgsoni	20	524
poli	24	675
Ox	21	67
Oxen, wild	6	110
Oyapock	29	614
Paca	21	86
Paco	1	435
Pademelon	21	92
Pallah	21	209
Panda	21	242
Pangoline	9	580
	18	218
Panther	17	303
	21	250
Pantholops hodgsoni	6	569
Paradoxure	21	276
Paradoxurus	21	210
	21	276
typus	26	667
Paseng	21	365
Pecari	9	189
	26	138
Peccary	21	461
collard	21	461
white-lipped	21	461
Pecora	27	282
Pedetes caffer	16	246
Pedetes capensis	16	17
Pedetidæ	16	246
Peechi	8	495
Pekan	11	282
	18	332
Perissodactyla	25	241
Perodipus ordi	16	293
Peroynthus	9	189
Peromyscus leucopus	8	584
Perophora	2	380
Petaurus	21	704
Phacochœrus	28	768
Phalangeridæ	21	703
Phalangers	21	703
Phascolarctos cinereus	16	502
Phascologale	21	715
Phascolomus	29	457
Phascolomys	2	566
	29	457
Phoca caspica	24	480
Phoca fœtida	24	480
Phoca grœnlandica	24	480
Phoca vitulina	13	680
	24	480
Phocidæ	17	304
	22	103
Phoronis	21	793
Phyllostomomidæ	27	662
Physeter macrocephalus	29	233
Pika	22	81
Pinché	18	306
Pinnipedia	5	641
	5	642
	22	103
	24	479
Pipistrelle	22	112
Pipistrellus subflavus	28	43
Pithecia	19	360
	24	175
Platanista	22	376
Platanistidæ	22	376
Platypus	2	566
	9	380
	22	241
Platyrhini	19	359
Polecat	19	655
	22	300
Polyprotodontia	18	331
Pontoporia	22	376
Porcupine	22	373
brush-tailed	22	373
Canadian	22	373
crested	22	373
tree	27	36
Porpoise	22	575
white-lipped	22	376
Potamochœrus	23	549
africanus	23	549
porcus	23	549
Potamogale	22	439
velox	22	439
Potamogalidæ	22	439
Prairie dog	22	507
Primates	22	577
Prionodon gracilis	8	630
Proboscidea	27	281
Proboscis	22	625
Procavia	14	610
	27	281
Procaviidæ	14	610
Procyonidæ	23	107
cancrivorus	23	107
Procyon lotor	23	107
Procyonidæ	5	642
Prongbuck	22	654
Pronghorn	22	654
Prosimiæ	22	577
Prototheria	22	694
Pteropodidæ	3	325
	14	649
Pteropus	12	131
edulis	11	408
Pudua humilis	4	571
Puma	8	92
	9	190
	11	102
Putorius noveboracensis	29	130
Pyrosoma	2	380
Quadrumana	22	577
Quagga	14	398
	23	54
Rabbit	9	190
	23	104
Flemish giant	23	105
gray	13	708
parturient	23	104
rock	27	281
tailless	23	104
white	13	708
Raccoon	23	107
crab-eating	8	144
	23	107
Rangifer	23	333
	23	773
arcticus	5	611
	23	334
tarandus	23	333
Rasse	23	223
Rat	23	224
black	23	224
brown	23	224
camass	5	244
	13	61
opossum	20	715
Pharaoh's	14	635
tree	27	36
kangaroos	16	292
Ratel	23	224
Raton laveur	23	107
Rattus	9	189
Reedbucks	23	336
	23	516
Reem	23	297
Reindeer	1	316
	9	190
	23	333
Reitboks	23	336
Reptiles	23	388
Reptilia	23	388
Rhachianectes	23	688
Rhacianectes	29	231
Rhesus	23	457
Rhinoceros	23	463
African	23	464
bicornis	23	464
hairy-eared	23	464
Indian	23	463
indicus	23	463
	23	464
Javanese	23	464
lasiotis	23	464
simus	23	464
Sondaic	23	464
sondaicus	23	464
Sumatran	23	464
sumatrensis	23	464
Rhinocerotidæ	23	463
Rhinolophidæ	17	176
Riet-bok	23	516
River-hog	23	549
Rodentia	23	619
duplicidentata	23	620
simplicidentata	25	620
Romerolagus	9	190
	23	104
Rorqual	23	242
	23	688
Rudolphis	29	232
Ruminants	23	772
Sable	19	655
	24	84
Canadian	18	332
Sagoin	24	110
Sagonin	24	110
Sai	24	111
Saiga	24	111
tartarica	24	111
Sajou	24	290
Saki	24	175
Sakis	19	360
Sambur	24	220
Sapajon	19	360
	24	290
Sapi-utan	24	290
Sarcophilus ursinus	2	566
	8	489
Sasin	24	308
Sassaby	13	734
Scale-tail	24	347
Scalops aquaticus	24	758
Scapanus	19	311
Sciuridæ	13	61
Sciuridus franklini	13	61
Sciurinæ	25	466
Sciurus niger	11	567
Sciuromorpha	23	620
Scyphozoa	1	635
Sea-elephant	22	108
Seal	22	108
	24	479
Caspian	24	480
common	24	480
eared	22	108
elephant	10	222
fur	24	482
gray	24	480
hair	24	480
harbor	13	688
harp	24	480
hooded	14	362
	22	108
	24	400
monk	19	359
ringed	24	480
Sea-otter	24	475
Sea-peach	2	380
Semnopithecus	24	556
	28	254
nemæus	9	276
Serow	24	597

Vertebrates — General — cont'd	Vol.	Page
Serval	11	102
	24	604
Sewellel	24	627
Sha	20	697
Sheep	24	672
Ancon	21	48
Barbary wild	24	675
blue	24	675
British Columbia, Black Mountain	24	676
Cheviot	6	431
Fannin's Mountain	24	676
gregariousness of	24	672
Kamchatkan	24	675
Marco Polo	24	675
Mexican	24	676
mountain	24	675
Nelson's	24	676
Punjab wild	24	675
saddle-backed	24	676
White Mountain	24	676
Shrew	24	757
cape jumping	16	246
elephant	10	223
jumping	16	246
lesser	24	758
mole	24	758
musk	24	758
water	24	758
Siamanga	12	641
Siffleur	18	306
	24	797
Sika	24	806
Simiidæ	2	53
	14	342
	25	21
Simplicidentata	25	26
Sirenia	9	388
	25	46
Sivatherium	4	409
Skunk	19	655
	25	79
Sloth	9	580
	25	100
three-toed	26	134
Solidungula	25	241
Sorey vulgaris	24	757
Soricidæ	19	811
pygmæus	24	758
Sotalia	22	376
Spaniel	25	343
Spelerpes	6	144
Spermophile	25	401
Spermophilus	22	508
	25	401
	25	467
tridecemlineatus	13	60
Sphingurinæ	22	373
Sphingurus	27	36
Spilogale	25	79
Spitz	25	425
Springbok	25	454
Springhaas	16	246
Squamata	9	580
	14	144
Squirrel	25	466
flying	11	355
	11	408
fox	11	567
	25	466
ground	13	60
	25	467
prairie	22	508
red	25	467
Stag	23	280
Steinbock	14	616
Strepsiceros kudu	16	520
Suidæ	25	807
Suina	27	282
Sulphurbottom	29	231

Vertebrates — General — cont'd	Vol.	Page
Suricata tridactyla	26	87
Suricate	26	87
Sus scrofa	26	138
Susu	22	376
Swine	26	138
Synopta	26	170
Synetheres	22	373
Syntherenæ	22	373
Tachyglossidæ	9	541
Tahr	26	216
Talbot	14	443
Talpidæ	19	311
Tamandua tetradactyla	2	14
Tamarao	26	232
Tamarins	18	306
Tamias	6	562
	25	467
quadrivittatus	6	562
striatus	6	562
Tanrec	26	249
Tapir	26	263
Tapiridæ americanus	26	263
Tapiridæ indicus	26	263
Tapiridæ malayanus	26	263
Tardigrada	26	267
Tarsier	26	275
spectrum	26	275
Tarsiidæ	17	282
Tarsipedinæ	21	703
Tasiurus borealis	28	43
Tasmanian Devil	2	566
	3	386
	8	489
	26	280
Tayra	26	304
Tejon	3	34
Teledu	26	327
Tetraceros quadricornis	6	560
Tenrec	26	249
Thomomys talpoides	13	61
Thylacine	26	604
Thylacinus	18	330
	26	280
	26	604
cynocephalus	2	566
	8	489
	29	439
Tiger	9	190
	11	102
	26	622
Bengal	26	622
cat	9	189
	26	622
cave	11	102
Tasmanian	2	566
Tikus	4	716
Toddy-cat	26	667
Toxodon	26	737
Toxodontia	26	737
Tragelaphus arundinaceus	23	516
Tragelaphus spekei	19	685
Tragelaphus sylvaticus	4	286
Tragulina	27	282
Tragulus javanicus	16	290
Tree-shrew	27	36
Trichechidæ	22	103
Trichosurus vulpecula	21	703
Tubulidentata	9	580
Tupaiidæ	27	36
tana	27	36
Turnspit	27	206
Tylopoda	5	258
	27	234
	27	282
Typhlomolge rathbuni	6	144
Typhlotriton spelæus	6	144
Uacavia	19	360
Unau	25	100
Urial	20	697

Vertebrates — General — cont'd	Vol.	Page
Urocyon argenteus	11	565
Urquamata	18	330
Ursidæ	5	642
Ursus	3	385
arctos	3	385
dalli	3	385
horribilis	3	385
middendorffi	3	385
pruinosus	3	385
richardsoni	3	385
Vampire	17	783
bat	27	662
Vampires, false	17	176
Vespertilio buscus	28	43
Vespertilionidæ	3	325
	28	43
Vespertilio ripistrella	22	112
Vicuna	28	76
Viscacha	28	131
Vivericula malaccensis	23	223
Viverridæ	5	642
	6	725
	14	634
	21	210
Viviparous animals	28	156
Vole	11	182
	28	172
Vulpes	11	565
fulvus	25	15
Wah	21	242
Wallaby	28	235
Walrus	22	103
	28	246
Wanderoo	28	254
Wanderu	28	254
Wapiti	28	256
Warrigal	2	566
Wart-hog	28	768
Waschbär	23	107
Weasels	19	655
	29	130
Whale	29	230
Arctic right	29	232
Atlantic right	29	233
beaked	29	233
black	29	233
blue	29	231
bottlenosed	29	233
Caaing	5	114
California gray	29	231
	29	232
Greenland	13	436
right	29	232
humpback	14	495
killer	13	120
little piked	29	232
pollack	29	232
pygmy, right, of New Zealand	29	233
right	29	231
sperm	29	233
whalebone	29	231
Whales, Baleen	3	78
Baleen-Bearing	6	233
Wildcat	29	309
Wildcats, African and Asiatic	29	310
Wolf	29	438
Arctic	29	439
barking	3	276
black	29	439
dusky	29	439
European	29	439
maned	18	297
prairie	29	439
Tasmanian	26	280
zebra	8	489
zebra	3	386
	26	604
	29	691

Vertebrates — General — cont'd	Vol.	Page
Wolverine	19	655
	29	415
Wombat	2	586
	29	457
Wood-chuck	13	492
	29	493
Eastern	18	306
Wood mouse	29	186
Wood rabbit	13	798
Wood-rat	29	487
Wow-wow	12	641
Xiphodontidæ	29	600
Yaguarondi	15	596
Yak	29	605
Yapach	29	614
Yapock	29	614
Yapok	29	614
Zamouse	29	686
Zapus hudsonius	16	17
Zebra	14	396
	14	397
	29	690
Zebu	15	29
Ziphiidæ	29	230
	29	233
Ziphius	29	233
Zoantharia	29	717
See also Domestic Animals.		

Amphibia

Acris	27	35
gryllus	13	160
	27	35
Aglossa	1	238
Alligator-fish	1	422
	14	649
Alytes	1	460
Amblystoma	1	472
tigrinum	2	683
Amphibia	1	586
	14	640
	23	618
Amphisbæna	1	589
	6	569
Amphiuma	1	590
Amphiumidæ	1	590
	16	515
Apoda	1	586
Arcifera	2	187
	26	657
Autodax lugubris	24	177
Axolotl	2	683
Batrachia	3	340
Bombinator igneus	11	248
	26	657
Brazilian ferreiro (hyla faber)	20	503
Bufoagua viridis	26	657
Bufo	26	657
agua	26	657
calamita	19	767
Bufonidæ	26	657
lentiginosus	26	657
Bull-frog	5	9
Cæcilian	5	136
	7	199
Cœcilian	7	199
Coqui	17	175
Cricket frog	13	160
Cryptobranchidæ	8	266
Cryptobranchus maximus	16	515
Cystignathidæ	17	175
Cystignathinæ	12	117
Derotremata	27	597
Desmognathus fusca	24	177
Diemyctylus torosus	20	288
Diemyctylus viridescens	20	288
Discoglossidæ	26	657

Amphibia — cont'd	Vol.	Page
Engystomidæ	12	118
Eft	9	720
Escuerzo	10	497
Ferreiro, or Smith	20	332
Frog	12	117
bull	5	9
cricket	8	191
	13	160
fire-bellied	11	248
fishing	13	60
flying	11	408
grasshopper	13	160
leaf	17	175
marsupial	18	330
mink	19	195
nurse	20	503
obstetrical	20	553
Grasshopper-frog	13	160
Hippopotamus	14	203
amphibius	14	203
liberiensis	14	203
Hellbender	16	515
American	14	83
	16	515
Hyla arborea	27	35
Hyla faber	20	332
Hyla pickeringii	21	469
Hyla versicolor	27	35
Hylidæ	14	595
	26	657
	27	35
Hylodes	27	35
faber	27	35
goeldii	27	35
martiniensis	17	175
pickeringii	27	35
Iguanidæ	14	384
Kongo snake	16	515
Lissamphibia	1	586
Megalobatrachus	27	597
Megalosaurus	18	593
Mixosaurus	14	653
	19	276
Mud-eel	19	547
Mud-puppy	19	547
Myctodera	27	597
Nantes	29	730
Natterjack	19	767
Newt	20	288
Pacific	20	288
Nototrema	27	35
Peeper	21	469
Perennibranchiata	27	597
Phyllobates	20	503
Pipa americana	26	88
Pipidæ	26	657
Plethodon	24	177
Pleurodira	6	378
	27	208
Proteidæ	22	676
Proteus	22	689
Pseudobranchus	25	46
Pana palustris	12	118
Pana septentrionalis	19	195
Ranidæ	12	117
	27	35
Rhinophrynus dorsalis	26	657
Salamander	6	144
	13	61
	24	177
giant	16	515
Salpa	2	380
Scaphiopidæ	26	657
Scaphiopus holbrookii	25	322
Serpentes	29	730
Sertularians	5	276
Siredon lichenoides	2	683
Sidenidæ	25	46
Toad	26	657
fire	11	248

Amphibia — cont'd	Vol.	Page
European fire	26	657
green	26	657
horned	14	384
long-tongued	26	657
midwife	20	553
pipa	26	88
spade-foot	25	322
Surinam	26	88
tree	27	35
Tree-frog	27	35
Pickering's	27	35
Tree-toad	17	175
Unke	11	248
Urodela	1	586
	24	177
	27	597

Birds

Aasvogel	1	5
Accentor	1	69
modularis	14	63
Accipiter cooperi	14	6
Accipitres	1	75
	9	473
	29	730
Acryllium vulturinum	13	539
Actitis macularia	24	256
Adjutant	1	141
	25	698
Ægialitis hiaticula	23	528
Ægialitis vocifera	16	412
Ægithalos	26	654
Ælurædus viridis	6	29
Æpyornis	23	227
Aerönautes melanoleucus	26	133
Agapornis	17	694
	21	345
Agelæus phœniceus	4	40
Agelaius phœniceus	28	290
Aigrette	1	272
Aithurus polytmus	17	640
Aix sponsa	9	379
	29	480
Ajaja	25	432
Alauda arvensis	25	80
Alaudidæ	16	749
Alaudidæ	8	29
Albatross	1	329
	11	355
Alca impennis	23	242
Alca torda	2	551
	23	242
Alcedinidæ	16	442
Alcedo ispida	16	442
Alcidæ	2	551
	9	284
Alectoropodes	21	597
Alle alle	2	551
	9	284
Alpine swift	26	133
Alpinus cypselus	26	133
Altrices	1	432
Amazona ovatrix	21	344
Amblyornis inornatus	4	363
Ammodramus	25	361
Ampelidæ	11	409
	29	120
Anarhynchus frontalis	29	574
Anas boschas	9	378
Anas rubripes	9	379
Anastomus lamelligerus	20	699
Anastomus oscitans	20	699
Anatidæ	1	626
	9	378
	12	355
Anatinæ	9	378
Andigena bailloni	26	717
Ani	1	695
Anodorhynchus	21	344
Anöus stolidus	20	387
Anser	12	355

Birds — cont'd	Vol.	Page
Anseres	2	6
	9	378
	29	730
Ant-birds	2	14
	11	491
Anthochæra carunculata	29	112
Anthropoides virgo	8	670
Anthus	28	212
obscurus	26	650
pratensis	26	651
rubescens	26	650
Antrostomus carolinensis	6	651
Antrostomus vociferus	29	257
Antwerp	14	341
Aphriza virgata	26	62
Aptenodytes	21	507
fosteri	21	507
patagonica	21	507
Apteria	22	255
Apteryx	2	103
Aquila	9	473
chrysaetus	9	473
	9	474
hiliaca	9	473
mogilnik	9	473
pennata	9	473
Aquilidæ	2	113
Aquilinæ	9	473
Araçari	26	717
Archibuteo	23	720
Ardeæ	6	671
Ardea alba	9	732
candidissima	9	732
egretta	9	732
garsetta	9	732
rubescens	9	732
tricolor	9	732
virescens	11	406
Ardeidæ	2	189
	14	142
Ardetta	4	25
Argusianus argus	21	716
Artamus fuscus	26	667
Asio accipitrinus	24	746
Astur atricapillus	13	69
	14	6
Astur palumbarius	13	69
Atrichornithidæ	24	456
Atticora cyanoleuca	26	107
Auk	2	551
	22	792
great	13	168
Auriparus	26	654
flaviceps	26	654
	28	14
Aves	23	227
Avocet	2	680
Aythya affinus	24	359
Aythya americana	23	288
Aythya ferina	22	269
Aythya marila	24	358
Balæniceps	3	64
rex	24	739
Baldhead	3	75
Bald-headed eagle	9	473
Baldpate	3	75
Banana-birds	3	132
	14	356
Bank-swallow	3	148
Bantam	3	215
Barbet	3	237
Barbs	9	284
Barnacle goose	3	574
Barn owl	3	261
Barn-swallow	3	261
	26	107
Bartramia longicauda	11	183
	24	256
Bataleur	3	326
Baya	3	360
Bay-birds	3	359
Bay-ducks	9	378
Baya sparrow	3	360
Baywinged bunting	28	42
Beach-birds	3	359
	17	442
Beach-robin	4	416
Bean-goose	3	379
Beccafico	3	401
Bee-birds	3	418
Bee-eater	3	418
Beef-eaters	4	693
Bee-martin	16	441
Belgian canaries	5	488
Belgian homer	14	341
Bell-bird	3	478
Bengali	3	512
Berghaan	3	546
Bergut	3	550
Bernicle goose	3	574
Bienteveo	3	691
Birds	3	728
	9	191
	19	49
	29	730
autumnal migration	19	51
books about North American	3	731
character of feather coat	3	728
classification of	21	5
crocodile	8	218
cushew	8	333
distinctive character of North American bird life	3	729
distribution of, in North America	3	730
emerald paradise	4	2
federal protection of American	3	731
fishing	11	293
flesh	11	347
flightless	11	375
food and feeding methods	3	729
humming	11	355
	14	493
	18	213
love	21	345
mallee	18	167
mango	18	213
May	18	461
migration of American	3	730
mina	19	145
moa	15	419
mound	19	521
mouse	19	534
nests	3	732
classifying	3	733
method of construction	3	733
northward movement in spring	19	50
of America	3	736
of paradise	4	1
of prey	4	2
orders of carinate	23	221
organ	20	791
oven	21	58
paddy	21	92
parson	21	348
passerine	22	255
peabody	13	26
	21	439
plants attractive to	3	734
poé	21	348
powers of flight	3	728
protection of	3	734
reproduction	3	729
rhinoceros	23	465
rifle	23	517
satin bower	2	566
scrub	24	456
soaring of	11	355
song of	25	254
sugar	25	794
summer red	26	239
sun	26	26
surf	26	62
umbrella	27	267
usefulness to man	3	729
Bittern	4	25
Blackbird	4	39
crow	8	245
Savanna	4	40
skunk	4	40
Black cap	4	33
Blackcock	4	41
Blackheart	4	40
Black swan	2	566
Black vulture	5	672
Blight-bird	4	82
Bloodbird	4	114
Blood-pheasant	4	111
Bluebill	4	128
Bluebird	4	128
Blue darter	14	6
Blue-eye	4	124
Blue kite	16	465
Bluethroat	4	130
Boatbill	4	137
Boatswain bird	4	137
Bobolink	4	138
Bob-white	23	55
Bog-pumper	4	25
Bonebreaker	4	213
Booby	4	223
	12	274
Botaurus lentiginosus	4	25
Botaurus stellaris	4	25
Bower-birds	4	362
	6	29
Brant	3	574
	4	416
white	4	416
Branta bernicla	4	416
Branta nigricans	4	416
Brevipennes	4	474
Broadbill	4	568
Broadmouth	4	568
Broad-wing	14	98
Bronze wing	4	586
Brush-turkey	4	640
Bubo	4	652
Bucconidæ	22	792
Bucerotidæ	14	384
Budgerigar	4	677
Budytes flavus	28	212
Buffalo-bird	4	693
Bufflehead	4	696
Bulbul	4	716
Bullbat	5	14
	20	339
Bullfinch	5	16
	13	486
Bunting	5	27
blackthroated	9	80
ciri	6	696
snow	25	151
towhee	26	723
Buphaga	5	30
Burgomaster	5	41
Bush creepers	5	73
Bustards	5	76
Butcher bird	5	76
	24	758
Buzzard	5	94
hawks	14	7
Cacatuidæ	21	344
Caccabis chukor	6	651

Birds — cont'd	Vol.	Page
Caccabis rufa	21	358
	23	299
Cacique	5	130
Cærebidæ	14	356
Cage-birds	5	143
Cailzie	5	551
Calcarius	17	647
Calidris arenaria	24	254
Callocalia	6	559
	26	133
Calypte annæ	14	494
Calyptomena	4	568
Camel-bird	21	36
Campephilus principalis	15	567
	29	497
Canary	5	488
cinnamon	5	488
gold-spangled	5	488
humpback	5	488
Manchester	5	488
silver-spangled	5	488
wild	13	29
British crested Norwich	5	488
Cancroma zelendoni	4	137
Canvas-back	5	539
Capercaillie	5	551
Capercailzie	5	551
Capitonidæ	26	551
Caprimulgidæ	5	572
	20	341
Caracara	5	582
Cardinal grosbeak	5	602
Cardinalis cardinalis	5	602
Carduelis canaria	5	488
Carduelis carduelis	13	30
Cariama	5	608
cristata	5	608
Carinatæ	20	75
Carpodacus frontalis	14	446
Carpodacus purpureus	23	30
Carpophaga	12	136
Carriers	9	284
Cashew-bird	5	702
Cassowary	2	566
	5	713
	23	227
Casuarius australis	2	566
Casuarius papuanus	5	713
Cat-bird	6	29
Catarractes chrysocome	21	507
Catharista atrata	5	672
Cathartesaura	27	199
Cathartidæ	6	56
	27	199
	28	200
Catheturus lathami	4	640
	18	593
Cecomorphæ	14	79
Cedar-bird	6	161
Centropodinæ	8	290
Ceophlæus pileatus	29	497
Cephalopterus ornatus	27	267
Cereopsis	6	224
Ceriornis	26	765
satyra	26	765
Certhea	27	35
Certhia	28	232
Certhiidæ	29	566
Certhiola flaveola	11	395
Ceryle alcyon	16	442
Ceryle americana	16	442
Ceryle torquata	16	442
Chacalaca	13	510
Chætura vauvii	26	133
Chæturinæ	26	133
pelagica	26	133
Chaffinch	6	243
Chaja	24	449
Channel-bill	6	288
Charadriidæ	22	251
dominicus	22	251
squatarola	22	251
Charadriiformes	17	442
Charadrius	6	303
	9	272
	22	251
squatarola	4	40
Chats	28	695
Chatterers	6	360
Chaulelasmus americana	9	379
Chauna	24	449
cristata	24	449
Chelidon ariel	26	107
Chelidon erythrogaster	26	107
Chelidon filifera	26	107
Chelidon urbica	26	107
Chenomorphæ	6	411
Chenopsis atrata	26	110
Chickadee	6	451
	26	653
Chiff-chaff	6	459
Chimango	6	513
Chinese swallows' nests	6	559
Chionididæ	24	670
Chionis alba	16	345
	24	670
Chionis minor	16	345
Chlamydera	4	363
Chloephaga antarctica	16	345
Chloephaga hybrida	16	345
Chloris	6	577
Chondestes grammacus	16	749
Chordeiles virginianus	20	339
Chrysolophus amherstiæ	21	716
Chrysolophus pictus	21	716
Chrysotis amazonicus	21	345
Chuck-Will's-Widow	6	651
Chukor or Chicore	6	651
Chunga burmeisteri	5	608
Cichlopsis	26	597
Ciconia	6	671
alba	25	697
Ciconii	6	671
Ciconiidæ	25	697
Ciconiformes	6	671
Cinclus aquaticus	21	56
Cinclus mexicanus	21	56
Circaetus gallicus	9	473
Circus cyaneus	14	7
Cisticola cursitans	11	12
Cistothorus	29	567
Clangula americana	9	380
Clangula clangula	13	26
Clangula hiemalis	20	656
Clangula islandica	13	26
Coccothraustes vulgaris	14	5
Coccygomorphæ	7	182
	14	369
	27	82
Cochin	7	183
Cock, Maccartney's	11	233
Cockatoo	7	185
	21	344
Cock of the rock	7	185
Colaptes	29	496
auratus	21	358
Colin	28	129
Colinus ridgwayi	23	55
Colinus virginianus	23	55
Collocalia fuciphaga	24	179
Columba	9	284
Ænas	25	659
fasciata	22	80
flavirostus	22	80
intermedia	22	78
leucocephala	22	80
leuconota	22	78
livia	9	284
	22	78
palumbus	9	284
Columbacei	23	221
Columbæ	7	334
	9	222
Columbidæ	7	338
	9	284
	22	78
	28	93
Columbigallina passerina	9	284
Colymbidæ	9	198
	13	366
Colymbiformes	7	347
Colymbus septentrionalis	9	198
Combasou	7	349
Comet	7	360
Compsothlypis americana	28	694
Condor	7	481
Contopus virens	21	699
Conurus carolinensis	21	344
Conurus carolinensis ludovicianus	21	344
Coot	7	644
Coraciidæ	23	635
Coraciiformes	7	676
Coracias garrula	23	635
Coraciiformes	14	384
	22	63
	27	82
Corasias	23	635
Corn-crake	7	698
	8	151
Cornus minutus	11	277
Cornus ossifragus	11	277
Corvidæ	8	29
	23	232
Corvus corax	23	232
Corvus corax principalis	23	232
Corvus corax sinuatus	23	232
Corvus corone	5	672
Corvus cryptoleucus	23	233
Corvus frugilegus	23	679
Corvus monedula	15	573
Corvus ossifragus	8	245
Corythaix	22	160
	26	719
Cotingidæ	8	57
	27	267
Coturnix	21	358
communis	21	358
Coua	8	290
Coucal	8	90
Courser	8	114
	17	442
black-bellied	8	114
cream-colored	8	114
Cowbird	8	133
Cracidæ	13	509
Crake	8	151
Crane	2	566
	8	156
Creeper	8	176
Crossbill	8	237
Crossoptilon	21	716
Crotophaga	8	244
ani	8	244
Crotophaginæ	8	290
Crow	8	245
carrion	5	672
Clark's	20	509
fruit	12	131
hooded	14	361
piping	22	112
rain	23	180
white	28	201
Crymophilus fulicarius	21	704
Crypturi	8	266
	26	640
Cuckoo	8	289
	6	288
drongo	9	339
ground	23	556
lark-heeled	8	90

Birds — cont'd	Vol.	Page
Cuckoo, yellow-billed	23	180
Cuculidæ	8	290
Cuculiformes	8	290
Cupidonia	22	506
Curassow	8	305
Curlew	8	308
Curruca atricapilla	4	33
Curystomus	23	635
Cyanecula	4	130
Cyanospiza	11	216
ciris	20	396
Cyclopsittacidæ	21	344
Cygninæ	26	109
Cygnus atratus	2	566
Cygnus olor	26	109
Cymochorea leucorrhoa	21	677
Cypselus	26	133
Cypseloides niger	26	133
Cyrtonyx montezumæ	21	357
Dabchick	8	386
Daceloninæ	16	442
Dafila acuta	9	379
	25	451
Daulias luscinia	20	340
Daulias philomela	20	341
	21	767
Dayal	9	53
Dead-men's-fingers	8	526
Demoiselle	8	670
Dendroica	28	694
æstiva	8	133
	13	29
	29	629
Dhyal bird	9	53
Diamond-bird	9	66
Dicæum	9	77
Dichromatism	9	78
Dicæidæ	11	394
Dickcissel	9	80
Dicruriæ	9	339
Dicrurusater	9	339
Didunculus	9	93
strigirostris	9	93
	9	221
	26	698
Diomedea	9	134
Diplopterinæ	8	290
Dissura maguari	25	698
Diver	9	198
Dodlet	9	221
Dollar bird	9	236
Dotterel	9	272
	23	528
Doughbird	9	276
Dove	9	284
ground	9	284
	13	492
mourning	9	284
ring	9	284
rock	9	284
stock	25	659
turtle	9	284
white-winged	9	284
Dovekie	9	284
Dowitcher	9	287
Drongo	9	339
Dromaius novæ hollandiæ	2	566
Dryobates	29	497
pubescens	29	497
villosus	29	497
Duck	9	378
American eider	10	26
black	9	427
blackhead	24	358
canvasback	9	379
	22	269
dusky	9	427
eider	10	26
European eider	10	26
hawk	14	6
fish	18	672
gray	12	217
Labrador	16	623
Mandarin	18	205
Pekin	21	476
river	9	378
ruddy	23	752
sea	22	269
scaup	22	269
sea	24	682
sprigtail	25	451
summer	29	480
surf	24	428
wood	29	480
Dunlin	9	405
Eagle	9	473
black	9	474
bald-headed	9	473
dwarf	9	473
fishing	9	473
	11	293
golden	9	473
Guiana	9	474
harpy	9	474
hawk	9	474
imperial	9	473
king	9	473
land	9	473
owl	9	475
sea	24	473
seafishing	9	473
serpent	9	473
	24	518
short-tailed	9	473
Eaves	9	519
Ectopistes migratorius	22	80
	21	368
Egg-bird	9	728
Egret	9	732
	14	142
little	9	732
reddish	9	732
Embden, white	12	356
Emberiza citrinella	29	628
Emberiza hortulana	21	13
Emu	2	566
	10	310
Ereunetes pusillus	24	256
Erismatura rubida	23	752
Ern	10	480
Erne	10	480
Erythacus rubecula	23	286
Estrilda astrilda	29	119
Eudocimus albus	14	617
Eudromiasmorinellus	9	272
Eudyptes	21	507
Eudyptula minor	21	507
Euornithes	10	576
	20	75
Euphonia musica	26	239
Eurostymus australis	9	236
Eurypgahelias	26	26
Fairy bluebird	10	721
Fairy martin	26	107
Falco chiquera	22	80
Falco lithofalco	22	80
Falco columbarius	22	80
Falco feldeggi	16	734
Falco gyrfalco	16	25
Falco ruficollis	22	80
Falco sparverius	25	861
Falcon	10	726
	14	6
	14	93
gentle	13	69
stone	18	676
Falconidæ	9	473
	10	727
	28	200
Fantail	9	284
	11	12
	26	597
Fat-bird	11	53
	13	506
Father John	11	54
Fern-owl	11	128
Fieldfare	11	183
Finch	11	216
brambling	4	409
falcon	11	216
European	13	30
grass	28	42
green	13	431
lazuli	17	160
mountain	4	409
pine	22	98
purple	23	30
rosy	23	713
Senegal	29	119
Finfoot	11	220
Fire-back	11	233
Fire-bird, black-winged	26	239
Fish-crow	11	277
Fissirostres	11	297
Flamingo	11	330
Flicker	11	352
Florican	11	366
Florikin	11	366
Flower-peckers	11	394
Flycatcher	11	406
great-crested	13	356
Flysnapper	11	409
Fly-up-the-creek	11	406
Formicariidæ	11	491
Fowl, wild jungle	22	460
Francolin	12	3
Fratercula artica	22	792
Friar-bird	12	100
Frigate-bird	18	193
Fringilla montifringilla	4	409
Fringillidæ	11	216
	12	110
	25	360
	28	42
Frogmouth	12	118
Fulica americana	29	21
Fuligulinæ	9	378
Fulmar	12	156
giant	21	677
Furnarius fuliginosus	21	58
Gadwall	9	379
	12	217
Galbulidæ	15	571
Galeate curassow	5	702
Galeoscoptes carolinensis	6	29
Gallinacei	23	221
Gallinæ	12	248
	21	597
Gallinago	25	147
Gallinula galeata	19	547
Gallinulinæ	29	21
Gallus	21	716
bankiva	22	460
domesticus	22	460
feratus	22	461
ferrugineus	22	461
giganteus	22	461
sonneratii	22	461
stanleyi	22	461
Gambet	23	290
Gamebird	22	506
Game birds, European	12	264
Gannets	12	274
Gardener-bird	4	363
Gauropicoides	29	497
Gavinda	16	465
Geese	12	355
Chinese	12	356
Genæus nycthemerus	16	282
Gennæus nycthemerus	21	716
Geococcyx californianus	23	576
Geocolaptes olivaceus	29	497
Geophaps scripta	21	358

Birds — cont'd	Vol.	Page
Geothlypis	28	695
Glareola	22	510
Glareolidæ	22	510
pratincola	22	510
Gleed	16	465
Gnat-catchers	12	735
	26	597
Gnat-snapper	12	735
Gnome	12	736
Goatsuckers	12	742
Godwits	12	751
Gold-crest	13	26
Goldfinch	11	216
	13	29
Golden-eye	13	26
Goldtit	28	14
Golondrina	13	39
Goose, bernicle	3	574
kelp	16	345
snow	4	416
Goshawk	13	69
	14	6
American	13	69
Goura	13	84
coronata	13	84
victoriæ	23	79
Grackle	8	245
	13	112
purple	8	245
Gracula	13	112
Grallæ	4	474
	23	137
	29	730
Grassfinch	11	216
Grassquits	13	161
Grebes	13	366
Greenlets	28	110
Greenlinnet	13	431
Greenshank	13	439
Griffin	28	200
Grosbeak	13	486
black headed	13	486
blue	13	486
evening	10	595
pine	13	486
	22	98
rose breasted	13	486
Grouse	13	496
pinnated	22	506
red	22	746
sand	24	251
sharp-tailed	22	507
	24	662
willow	22	745
Gruiformes	23	137
Grus australasianus	2	566
	19	766
Guacamayo	18	14
Guacharo	13	506
Guan	13	509
Guillemots	2	551
Guide-birds	13	532
Guinea-fowls	13	539
vulturine	13	539
Guiraca cærulea	13	486
Gulls	13	545
Gull, black-headed	13	545
Bonaparte's	13	545
Franklin's	13	545
great burgomaster	13	545
laughing	13	545
	17	102
ring-billed	13	545
Ross's rosy	13	545
white ivory	13	545
Gymnorhina tibicen	22	112
Gypaetus barbatus	9	473
	16	677
	28	201
Gyps	28	200
Gyrfalcon	16	25

Birds — cont'd	Vol.	Page
Hæmatopus ostralegus	21	81
Hæmatopus palliatus	21	81
Haliaetus	9	473
	24	473
albicilla	24	473
leucocephalus	9	473
pelagicus	9	473
vocifer	9	473
Harporhynchus	26	592
rufus	26	592
Harrier	18	324
Hawfinch	13	486
	14	5
Hawk	14	6
chicken	14	93
fish	11	279
	14	6
hen	14	6
	14	93
man-of-war	18	193
marsh	14	7
	18	324
pigeon	22	80
red-shouldered	23	286
sparrow	14	6
	25	361
snail	16	465
Heathcock	4	41
Heliornithidæ	11	220
	14	79
Heliothrix aurita	13	27
Helmintheros vermivorus	29	558
Helminthophilæ	28	694
Helodromas	29	629
Helotarsus	9	478
Hen, cape	12	156
eastern heath	22	506
mangrove	18	218
marsh	19	547
meadow	18	475
moor	29	21
mud	19	547
salt-water marsh	23	137
Herodii	14	142
Herodiones	25	697
Heron	14	142
green	14	142
Louisiana	9	732
night	14	142
snowy	9	732
Herring-gull	13	545
	14	150
Hesperocichla nævia	23	576
Hesperornis	23	227
Heteralocha acutirostris	14	484
Hill-tit	14	191
Himantopus mexicanus	24	255
Hirundinidæ	26	107
Hirundo	26	107
rustica	6	515
	26	107
Hoactzin	14	299
Hobby	22	80
Honey-buzzards	14	356
Honey-creepers	14	356
Honey-eater (meliphagidæ)	12	100
	14	356
	26	26
Honey-guides	13	532
Honey-sucker	14	356
Hoopoe	14	369
Hornbill	14	384
Houdan	14	441
House-finch	14	446
Hudsonia	18	181
Huia	14	484
Hummer, golden	13	27
long-tailed	17	640
Humming bird	14	493
anna	14	494

Birds — cont'd	Vol.	Page
nests of	14	494
Hylochichla mustelina	29	487
Hylocichla pallasii	26	597
Hylocichla ustulata	26	597
Ibis	14	616
Ibycter chimango	6	513
Icteridæ	8	29
	13	112
	14	654
Icterinæ	28	695
Icterus galbula	13	28
Indigo-bird	15	67
Insessores	15	165
Ionornis martinica	29	21
Irrisor	14	369
Ischyromis derbiana	24	449
Ithaginis	21	716
Ivory-bill	15	567
Iynx	29	575
Jabiru	15	571
	25	697
Jacamars	15	571
Jaçanas	15	571
	17	442
Jackdaw	15	573
Jack-snipe	15	573
Jæger	25	78
gulls	13	545
Jays	15	763
Jerfalcon	16	25
Junco	16	247
	25	152
Jungle-fowl	16	249
	21	716
Kagu	16	276
Kaka	16	279
Kakapo	16	280
	21	344
Kamichi	16	288
Kea	16	325
Kestrel	16	383
Ketupa	16	384
javanensis	16	384
Killdeer	16	412
Kingbird	16	441
King-crow	9	389
King-dory	16	434
Kingfisher	16	442
jackass	15	573
Kingfishers, dacelonine	16	442
Kinghunter	16	442
Kinglet	13	26
	16	442
	26	597
Kite	16	465
brahminy	16	465
everglade	16	465
Mississippi	16	465
pariah	16	465
red	16	465
swallow-tailed	16	465
whistling	16	465
white-tailed	16	465
Kittiwake	13	545
Kiwis	2	103
	23	227
Knot	16	491
Koel	16	507
Krieker	16	543
Lagopus	22	745
alpinus	22	746
lagopus	22	745
leucurus	22	746
rupestris	22	746
scoticus	13	496
	22	746
welchi	22	746
Lamb-killer	9	473
Lammergeier	16	677
Lamprornis violacauda	18	213
Langshan	16	721

Birds — cont'd	Vol.	Page
Laniidæ	24	758
Lanius excubitor	24	759
Lanius ludovicianus	24	759
Lanius minor	24	759
Lanius rutilus	29	493
Lanner	16	734
Lapwing	16	745
	22	251
Lari	16	749
Laridæ	13	545
	16	749
	25	78
Lark	16	749
bunting	16	749
finch	16	749
meadow	18	475
old-field	20	655
shore	24	745
Larus argentatus	13	545
	14	150
Larus delawarensis	13	545
Larus franklini	13	545
Larus glaucus	13	545
Larus maculipennis	13	545
Larus marinus	13	545
Larus philadelphia	13	545
Larus scopulinus	13	535
Laughing-jackass	15	573
Leptoptilus dubius	25	698
Lettuce-bird	13	29
Leucosticte	11	216
	23	713
Le pape (the pope)	20	390
Ligurinus chloris	6	577
Limicolæ	17	442
Limicoline family	22	251
Limpkin	17	444
Linnet	17	461
	22	98
Linota cannabina	17	461
Lipoa ocellata	18	593
Logcock	17	599
Lomvias	2	551
Longspurs	17	647
Loon	9	198
Lophodytes cucullatus	18	672
Lophorhina superba	4	2
Lophophorus	14	725
impeyans	21	716
Lophortyx	28	130
californica	21	357
vallicola	21	357
gambeli	21	357
Lophura	21	716
Loriculus	21	345
Loriidæ	21	344
	21	345
Lorikeets	17	665
Lory	17	665
Love-bird	17	694
Lovies	21	344
	21	345
Luscinia hafizi	20	341
Luscinia megarhyncha	20	340
Lullula arborea	29	486
Lunda cirrhata	22	792
Lyngidæ	29	496
Lyre-bird	17	783
Macaw	18	14
	21	344
blue	21	344
blue-and-yellow	18	14
	21	344
green	18	14
hyacinthine	18	14
red and blue	18	14
	21	344
red and green	18	14
spixi	18	15
Machetes pugnax	23	755
Macropteryx	26	133
Macrorhampus	9	287
	25	147
Magpie	18	131
yellow-billed	18	131
Maleo	18	167
Mallard	9	378
black	9	379
Mamo	18	181
Manakins	18	194
Manucodia	18	241
Manukdewata	4	1
Marabou	18	261
Mareca	29	295
americana	9	379
	29	295
penelope	29	296
Marila affinis	9	380
Marila americana	9	380
Marila collaris	9	380
Marila marila	9	380
Marila vallisneria	9	379
Marlinspike	4	137
	18	303
Martin	18	339
crag	8	149
house	26	107
purple	23	30
	26	107
Mavis	18	454
	25	256
Meadlark	18	479
Megalestris	25	78
Megapodes	18	598
Megapodiidæ	18	598
Melanerpes carolinus	29	497
Melanerpes erythrocephalus	29	497
Melanerpes formicivorus	29	497
Meleagris	27	180
Meliphagidæ	14	356
	26	26
Melopelia leucoptera	9	284
Melopsittacus undulatus	21	345
Melospiza	25	361
fasciata	25	256
Menura	17	783
Merganser	18	677
Mergus albellus	18	672
Mergus merganser	18	672
Mergus serrator	18	672
Merula confinus	23	576
Merula magratori	23	576
Merlin	18	676
	22	80
European	22	80
Microhierax cærulescens	11	216
Micropodinæ	26	133
Migration, phenomena of bird	19	50
Miluvius forcatus	4	2
Milvulus forficatus	24	424
Miminæ	26	597
Mimus polyglottus	19	282
Minorca	19	210
Mire-drum	4	25
Mniotiltidæ	29	487
Moas	23	227
Mocking-birds	19	282
	26	597
Molothrus badius	8	133
Monal	19	335
Monaul	19	335
Moorfowl	13	496
Moose-bird	19	436
Morphnus guianiensis	9	474
Motacilla alba	28	212
Motacilla rubicola	25	687
Motacillidæ	26	650
	28	212
Mother Carey's chicken	19	512
Motmot	19	514
Munia oryzivora	23	496
Munia undulata	20	510
Murrelet	19	612
Murres	2	551
	19	612
Muscicapidæ	11	406
Musophaga	22	160
Musophagidæ	22	160
Mycteria americana	25	698
Myiodectes	26	597
Myna-bird	19	145
Myopsitta monachus	21	345
Myristicivora	20	510
Nandus	19	688
Native companion	19	766
Nectarinia lotenia	26	26
Nectariniidæ	26	26
Neomorphinæ	8	299
Neophema	21	345
Neophron percnopterus	28	200
Neornithes	2	165
	20	75
	23	75
Nestoridæ	21	344
kea	21	344
Nestor meridionalis	16	279
Nestor notabilis	16	325
Nettion	26	318
carolinense	9	379
	26	318
Night-hawk	20	389
Nightingale	20	340
Chinese	14	191
Nightjar	20	341
Noddy	20	387
Nonpareil	20	396
Notornis	20	459
Nucifraga caryocatactes	20	509
Numenius borealis	9	276
Nutcracker	20	509
Nuthatches	20	509
Nutmeg-bird	20	510
Nyctale acadica	24	334
Nyctea nyctea	25	151
Oceanites oceanicus	21	677
Odontolcæ	20	75
	29	586
	23	227
Odontophorinæ	21	357
Œdemia	24	428
Oil bird	13	506
Old squaw	20	656
Old wife	20	656
Olor buccinator	20	109
	27	106
Olor columbianus	26	109
Olorida	26	109
Oology	29	697
Open-bill	20	699
Opisthocomus cristatus	14	299
Orecoca cristata	24	759
Oreortyx pictus	21	357
Oriole	18	213
	29	811
Baltimore	29	812
golden	13	28
	20	812
orchard	20	812
Oriolinus	29	135
Oriolus kundoo	18	213
Ornithology	21	4
Ornithostoma	21	8
Oroscoptes montanus	19	282
Ortalis vetula	13	510
Ortolan	21	13
Ortyx virginiana	28	129
Oscines	21	19
	25	254
Osprey	11	279
	14	6
Ossifraga gigantea	12	156

Birds — cont'd	Vol.	Page
Ostrich	9	6
	21	36
	23	227
domestication of	21	36
Otocoris alpestris	24	745
Otogyps	28	200
Ouzel	21	56
Oven bird	13	26
	28	694
Owl	21	66
barn	3	261
	21	67
barred	6	30
burrowing	5	66
cat	6	29
gnome	12	736
litch	17	396
mottled	19	520
saw-whet	24	334
screech	6	30
short-eared	24	746
snow	25	151
sparrow	25	362
Ox-peckers	4	693
Oyster catcher	13	545
	21	81
Pagophila alba	13	545
Palæornis alexandri	21	345
Palæornis forquata	21	345
Palaeornithinæ	21	345
Palamedea cornuta	16	288
Palamedieidæ	24	449
cornuta	24	449
Palm swifts	26	133
Pandion haliaëtus	11	279
Papillæ	22	254
Paradisæidæ	4	1
Paradiseidæ	8	29
Paradisea apoda	4	2
Paradisea sanguinea	4	2
Paridæ	26	653
Parinæ	26	653
Paroquet carolina	21	344
Paroquet louisiana	21	344
Parrakeet	21	344
alexandrine	21	345
grass	21	345
green	21	344
ground	21	345
rose ringed	21	345
warbling	21	345
zebra	29	691
Parridæ	15	571
Parrot	21	344
Amazonian blunt-tailed	21	345
bat	21	345
gray	21	344
green	21	345
owl	21	344
pygmy	21	345
thick billed	21	344
Parrotlets	21	345
Partridge	21	357
Barbary	23	289
California	21	357
Gambel's	21	357
gray	21	357
Massena	21	357
mountain	21	357
red-legged	21	358
Parus	26	653
ater	26	654
atricapillus	26	653
atricristatus	26	654
bicolor	26	653
carolinensis	26	653
cœruleus	26	654
cristatus	26	654
cyanus	26	654
major	26	654
varius	26	654
wollueberi	26	654
Parzana carolina	25	262
Passer	21	369
	25	361
	29	730
domesticus	14	447
Passerella	25	361
iliaca	11	567
Passeriformes	21	369
Pastor	21	374
roseus	21	374
Pavo cristatus	21	450
Pavoninæ	21	450
Peafowl	21	450
Pecker, mussel	19	653
Pediœcetes phasianellus	22	507
	24	662
Peewit	21	471
Pelecanidæ	21	483
Pelecanoididæ	21	677
Pelecanus californicus	21	484
Pelecanus crispus	21	484
Pelecanus erythrorhynchos	21	483
Pelecanus occidentalis	21	484
Pelecanus onocrotalus	21	484
Pelican	21	483
brown	21	484
California	21	484
white	21	483
Penelope	13	599
Penguin	21	597
Perdicidæ	21	357
Perdicinæ	21	357
Perdix cinerea	21	357
Peregrine	14	6
Peristeropodes	21	597
Pernis	14	356
Perns	14	356
Petrel	21	676
cape	5	548
Petrochelidon lunifrons	9	519
Pewee	21	699
Pezophapes solitarius	25	241
Pezoporus terrestris	21	345
Phœnicophaïnæ	8	290
Phætontidæ	27	97
Phainopepla nitens	11	409
Phalarope	21	704
Phalaropodidæ	21	704
Phalaropus lobatus	21	704
Phaps	4	586
Pharaoh's chicken	28	201
Pharomarcus mocinna	23	85
Phasianidæ	14	725
	21	715
Phasianus	22	460
colchicus	21	716
soemmeringi	21	716
torquatus	21	716
versicolor	21	716
Phaëton æthereus	27	87
Phaëton flavirostris	27	87
Pheasant	21	715
argus	21	716
blood	21	716
cheer	21	716
copper, of China	21	716
eared	21	716
fireback	21	716
golden	21	716
green, of Japan	21	716
horned	21	716
impeyan	14	725
	21	716
Japanese	12	266
kaleege	16	282
kalij	16	282
koklass	21	716
Lady Amherst	21	716
Reeves'	21	716
peacock	21	450
	21	716
silver	21	716
Philohela minor	29	494
Philomel	21	767
Phœnicopteri	6	671
Phœnicopterus ruber	11	330
Phorophacos inflatus	5	608
Phow	16	507
Phyllopneustes borealis	28	696
Phylloscopus collybita	6	459
Phylloscopus trochilus	29	351
Pica	22	62
Picæ	29	730
Picariæ	9	339
	22	63
Pici	29	496
Picicorvus columbianus	20	509
Picidæ	22	65
	29	496
Picoides	29	497
Picumnidæ	29	496
Pigeon	11	355
	14	341
	22	78
band-tailed	22	80
bronze	4	586
bronzewing	4	586
cape	5	548
carrier	11	355
	14	341
fruit	12	136
homing	14	341
kelp	16	345
	24	670
partridge	21	358
passenger	21	368
	22	80
prairie	22	507
principal groups	22	79
queen's	23	79
red-billed	22	80
rock	9	284
	22	79
squatter	21	358
tooth-billed	26	698
white-crowned	22	80
wood	22	80
Pigeon-hawk	14	6
Pinicola enucleator	13	486
	22	98
Pintail	9	379
	25	451
Pipilo	26	723
crythropthalmus	26	723
Pipiri	22	112
Plantain-eaters	22	460
Platalea	25	432
Plataleidæ	25	432
Platibis	25	432
Plectrophenax nivalis	25	151
Plocadiæ	29	135
Ploceidæ	13	28
Plover	11	355
	17	442
	22	251
field	11	183
golden	22	507
	22	251
ring	23	528
upland	22	507
Pluvianus ægyptius	8	218
Pochard	22	269
Podicipes fluviatilis	8	386
Podicipidæ	13	366
Polioaetus ichthyætus	9	478
Polioptilinæ	26	597
Polyplectron	21	450
	21	716
Poëcætes	25	361

Birds — cont'd	Vol.	Page
Poöcætes gramineus	28	42
Porzana	23	137
jamaicensis	23	138
noveboracensis	23	138
Poultry	22	460
Pouters	9	284
Prairie-chicken	22	506
	24	662
Pratincola rubetra	29	256
Pratincole	22	510
collared	22	510
Pringillidæ	24	597
Prionadura	4	363
Procellaria pelagica	19	512
Procellariidæ	21	677
Progne	23	30
subis	26	107
Propinqua	23	576
Prosthenadera novæ-zealandiæ	21	348
Protonotaria	28	693
Psaltriparus	26	654
Psitaci	21	344
	22	729
Psittacidæ	21	344
Psittacus erythacus	21	344
Psophia	27	106
crepitans	27	106
Ptarmigan	22	745
rock	22	746
white-tailed	22	746
Pterocles alchata	24	251
Pterocles arenaria	24	251
Pteroclidæ	24	251
Pterodermata	22	747
Pteroglossus aracari	26	717
Pteroglossus beauharnaisi	26	717
Pterylæ	22	255
Pterylosis	11	75
	22	749
Ptilenorhyncidæ	4	1
Ptilonorhynchidæ	4	362
Ptilonorhynchus holosericeus	2	566
Ptilonorhynchus violaceus	24	311
Ptilopus	12	136
Ptilorrhis paradiseea	23	517
Ptilenorhyncidæ	4	1
Pucrasia	21	716
Puff-birds	22	792
Puffin	2	551
	22	792
brevicaudus	24	670
crested	22	792
major	24	670
stricklandi	24	670
Pyranga	26	239
æstiva	26	239
hepatica	26	239
ludoviciana	26	239
rubra	26	239
Quail	23	55
bush	5	73
bustard	5	76
button	5	92
fool	21	357
helmet	21	357
Messina	21	358
plumed	21	357
Virginia	28	129
Querquedula	26	318
cyanoptera	9	379
	26	318
discors	9	379
	26	318
Quetzal	23	85
Quits	14	356
Rail	23	137
black	23	138
Carolina	25	262
clapper	23	138
king	23	137
Virginia	23	137
yellow	23	137
Rain-birds	23	180
Rain-crow	23	180
Rallidæ	29	21
Rallus aquaticus	29	36
Rallus crepitans	23	137
Rallus elegans	23	137
Rallus virginianus	23	137
Raptores	1	75
Rasores	23	221
of Vigors	23	221
Ratitæ	4	474
	20	75
	23	227
Rattlewing	13	26
Raven	23	232
white-necked	23	233
Razor-bill	23	242
Recurvirostra	2	680
Red-bird	5	602
Redbreast	23	286
Red-head	22	269
	23	288
Redleg	23	289
Redpoll	23	290
Redshank	23	290
Redstart	23	290
	28	695
Redwing	23	290
Reedbird	4	138
Regent-bird	23	320
Regulus calendula	16	442
Regulus satrapa	16	442
Reinhardius ocellatus	21	716
Rhamphastidæ	26	717
Rariel rhamphastidæ	26	717
Rhamphastos toco	26	717
Rhamphorhynchus	22	747
Rhea	23	455
americana	23	455
darevini	23	455
macrorhyncha	23	455
Rheidæ	23	455
Rhinoceros-bird	4	693
Rhinochetus jubatus	16	276
Rhipidura motacilloides	11	12
Rhodostethia rosea	13	545
Rhynchopsitta pachyrhyncha	21	344
Rice-birds	4	138
	23	486
Rifleman	23	517
Ringneck	23	528
Ring-ouzel	23	528
Rissa tridactyla	13	545
Road-runner	23	556
Robin	23	576
ground	26	723
Japanese	14	191
Oregon	20	784
	23	576
Pekin	14	191
redbreast	23	286
sea	13	575
	14	649
	24	476
Rocs	23	227
Roller	23	655
Rook	23	679
Rough-leg	23	720
Ruff	23	755
Runts	9	284
Salangane	24	179
Sanderling	24	254
Sandpiper	17	442
	22	251
	23	290
	24	255
pectoral	21	464
	24	255
purple	24	255
stilt	24	255
Sapsucker	24	292
	29	496
Satin-bird	24	311
Sauropsida	24	320
Saurotherinæ	8	290
Sayornis fuscus	21	699
Scaup	9	380
	24	358
Scissors-bill	25	70
Scissor-tail	4	2
	24	424
Scolopacidæ	23	577
	24	255
	24	425
	25	146
	29	494
	29	629
Scotch fancy	5	488
Scoter	24	428
Screamer	24	449
crested	24	449
horned	24	449
Scythrops novæ-hollandiæ	6	288
Sea-coot	24	473
Sea pie	21	81
Secretary-bird	24	518
Seed-eaters	11	216
Seiurus noveboracensis	28	212
	28	694
Selasphorus platycercus	14	494
Selenidera spectabilis	26	717
Sericulus chrysocephalus	4	363
	23	320
Serin	24	596
Serinus	24	597
canarius	24	597
canonicus	24	597
hortulanus	24	596
pusillus	24	597
Serpentariidæ	24	518
Serpentarius secretarius	24	518
Setophaga ruticilla	8	133
	23	290
	28	695
Setophaginæ	28	693
	28	695
Shag	24	610
Sharpshin	14	6
	14	93
Shearwater	24	670
Sheath-bill	17	442
	24	670
Sheld-drake	24	682
Sheldrake	24	682
Shell	24	687
ibis	24	687
Shore birds	17	442
	24	745
Shoveller	9	379
	24	757
Shrike	24	758
crow	24	759
drongo	9	339
flute	11	405
great gray	24	759
great northern	24	759
lesser gray	24	759
loggerhead	24	759
nine-killer	24	759
red-backed	24	759
swallow	26	667
Tasmanian crow	20	791
Siskin	22	98
	25	47
Sitta	20	509

Birds — cont'd	Vol.	Page
canadensis	20	509
carolinensis	20	500
pusilla	20	509
pygmæa	20	509
Sittidæ	20	509
Skimmer	25	70
Skua	13	545
	25	78
Skylark	25	80
Snail eater	24	687
Snipe	17	442
	22	251
	25	146
English	10	387
horsefoot	4	416
robin	23	577
seed	17	442
Snowbird	25	152
Snow-flake	25	151
Solitaire	25	241
Somateria	10	26
dresseri	10	26
mollissima	10	26
Sora	25	262
Sparrow	25	360
chipping	6	565
	11	183
English	14	447
field	11	183
fox	11	567
golden crowned	13	26
hedge	14	63
house	14	447
Java	15	760
lark	16	749
song	25	256
vesper	28	42
Spatula clypeata	9	379
	24	757
Spheniscus	21	507
demersus	21	507
Sphyrapicus	29	497
varius	24	292
Spinoletta	26	650
Spinus	13	29
pinus	22	98
tristis	13	29
Spiza americana	9	80
Spizaetus	9	474
Spizella	25	361
pusilla	11	183
socialis	6	565
Spoonbill	24	757
	25	432
Squabs	22	80
Stake-driver	4	25
Starling	25	495
Steatornis caripensis	13	506
Steganopodes	6	671
Steganopus tricolor	21	704
Stelgidopteryx serripennis	23	720
Stellula calliope	14	494
Stercorarius	25	78
Sterna hirundo	26	444
Stonechat	25	687
Stonecurlew	17	442
	26	551
Stork	25	697
open-bill	25	698
shoe-billed	24	739
Stormcock	19	261
Strepera graculina	24	759
Strepsilas interpres	4	416
Striges	25	730
Strigidæ	9	475
Strigops habroptilus	16	280
Stringopidæ	21	344
Strix varia	6	30
Struthio camelus	21	36
Sturnidæ	8	29
	25	495
Sturnus vulgaris	25	495
Sun-bittern	26	26
Surniculus dicruroides	9	339
Sutoria sutoria	26	216
Swallow	26	107
barn	3	261
	26	107
chimney	6	515
cliff	7	102
	9	519
rock	8	149
rough-winged	23	720
sea	26	444
violet-green	26	107
white-breasted	26	107
wire-tailed	26	107
Swan	26	100
black	2	566
	26	110
whistling	26	109
trumpeter	26	109
Swift	26	133
black	26	133
tree	26	133
Sylvania canadensis	28	695
Sylvania mitrata	14	362
Sylvania pusilla	4	33
Sylvia hippolais	6	459
Sylvicolinæ	28	693
Sylviidæ	6	459
	20	340
	28	695
Sylviinæ	26	597
Symphæmia	29	328
Syrinx	25	254
Tachornis	26	133
Tachycineta	26	107
bicolor	13	39
	26	107
leucorrhoa	13	39
thalassina	26	107
Tadorna cornuta	24	682
Tailor-bird	26	216
Tanagers	13	486
	26	239
Tanager, organist	26	239
Tanagridæ	26	239
Tantalinæ	25	698
Teal	26	318
Tern	26	444
sooty	9	728
Tetraonidæ	13	496
	21	357
	28	129
Thickhead	26	551
Thistle-bird	13	29
	26	568
Thrasaetus harpyia	9	474
Thrashers	19	282
	26	592
Thrasher, brown	26	592
Throstle	26	597
Thrush	13	26
	26	597
European	23	290
golden-crowned	13	26
hermit	26	597
mistle	19	261
olive-backed	20	665
song	25	256
Swainson's	26	597
tawny	27	718
Thryothorus	29	567
Thunder-pump	4	25
Tichodroma muraria	28	232
Tinamon	26	640
Tinnunculus alaudarius	16	383
Tit, crested	26	654
Titlark	26	650
meadow	26	651
Titmouse	26	653
bridled	26	654
tufted	26	653
Toddy-bird	26	667
Todiidæ	26	668
Todus viridis	26	668
Tody	26	668
green	26	668
Totanus	29	629
Toucan	26	717
bill	26	717
toco	26	717
Toulouse, gray	12	376
Touracos	22	160
	26	719
Tragopan	26	765
satyra	21	716
Tree-creeper	27	35
Tree-pipit	26	651
Tree-swallow	26	107
Trevoninæ	12	136
Tringa	24	255
alpina	4	40
canuta	16	491
maculata	15	573
	21	464
	24	255
maritima	24	255
minutilla	24	256
Trochilidæ	14	493
	27	30
Troglodytes aëdon	29	567
Troglodytidæ	29	566
Trogon	27	82
Trogonidæ	27	82
Tropic-bird	27	87
Trumpeter	9	284
	14	646
	22	110
	27	106
golden-breasted	27	106
Tryngites subruficollis	24	256
Trypetidæ	12	131
Tumblers	9	284
Turacus	22	160
Turbits	9	284
	27	174
Turdiæ	23	576
Turdidæ	26	597
	28	695
Turdus fuscescens	27	718
Turdus iliacus	23	290
Turdus pilaris	11	183
Turdus torquatus	21	56
	23	528
Turkey	27	180
buzzard	27	199
Turnstone	4	416
Turtur communis	9	284
Turumti, East Indian	22	80
Tympanuchus americanus	22	506
Tympanuchus cupido	22	506
Tympanuchus pallidicinctus	22	507
Tyrannus carolinensis	16	441
Tyrannus dominicensis	22	112
Upupa	14	369
Urinator imber	9	198
Urinator lumme	9	198
Vanellus cristatus	16	745
Vanellus vanellus	22	251
Veery	27	718
Verdin	28	14
Vermivora chrysophtera	13	29
Viduinæ	29	288
Vinago	28	93
Vireonidæ	28	110
Vireos	28	110
Vrinator arcticus	9	198
Vulture	28	200

Birds — cont'd	Vol.	Page
Vulture, black	5	672
Egyptian	10	23
griffon	16	677
monachus	28	200
pondicherry	28	200
Vulturidæ	28	200
Wagtail	28	212
Wall-creeper	28	232
Warbler	28	693
golden	13	29
golden-winged	13	29
hooded	14	362
willow	29	351
worm-eating	29	558
Water-hen	29	21
Water-rail	29	36
Water-thrush	28	694
	29	65
Water-wagtail	28	694
Wattle-bird	29	112
Wattle-crow	29	112
Wavey	29	118
Wax-bill	29	119
Wax-wing	29	120
Weaver-bird	13	486
	23	486
	29	135
Whalehead	24	739
Wheat-eel	29	245
Whidah-bird	29	288
Whinchat	29	256
Whippoorwill	29	257
Whistler	18	306
	29	262
Whistle-wing	13	26
	29	262
White-eyes	29	271
Whitethroat	29	277
Whydah-bird	29	288
Widgeon	9	379
	29	295
Widow-bird	29	288
Wildfowl	29	316
Willet	29	328
Windhover	29	380
Wing	29	395
Woodchat	29	493
Woodcock	29	494
Wood-duck	9	379
Wood-hoopoes	14	369
Wood ibises	25	697
Wood-lark	29	486
Woodpecker	29	496
California	29	497
green	23	180
ivory-billed	29	497
partridge	21	358
pileated	29	497
red-bellied	29	497
red-headed	29	497
scarlet-crested	15	567
Wood-robin	29	487
Wood-thrush	29	487
Wood-warblers	28	693
	29	487
Wren	13	26
	29	566
Amazonian	20	791
cactus	5	131
marsh	18	324
rock	23	597
willow	29	351
Wrybill	29	574
Wryneck	29	575
Xanthocephalus	4	40
Xenopicus	29	497
Yellowbirds	13	29
	29	629
Yellow-hammer	29	628
Yellow-legs	29	629
Yellowthroat	28	695

Birds — cont'd	Vol.	Page
Maryland	18	372
Yunx torquilla	29	575
Zenaidura macroura	9	284
Zonotrichia leucophyrs	25	361
Zonotrichia coronata	13	26

Fish

Abranies blicca	4	452
Abramis brama	4	452
Acanthopteri	14	645
Acanthopterygian	27	56
Acanthopterygii	1	66
	14	645
Acanthuridæ	14	649
Acipenseridæ	1	93
	14	642
	25	755
Acipenser rubicundus	16	661
Acrochelius alutaceus	6	650
Acropomidæ	14	647
Acrotidæ	14	647
Actinopteri	11	266
	14	640
	14	641
Actinopterygii	14	639
Actinosts	14	641
Agonidæ	14	641
	14	649
Aguja	25	366
Air bladder	26	136
Albulidæ	14	643
Alepocephalidæ	14	643
Alewife	1	360
	24	636
Allice	1	420
Alligator-gar	1	422
Allis	1	420
All-mouth	13	60
Alopias vulpes	24	659
	26	595
Alopiidæ	14	637
Alosa finta	24	637
Alosa sapidissima	11	274
Alosa vulgaris	24	637
Alutera schæpfii	11	206
Amber-fish	1	471
Ambloplites pupestris	3	316
	23	287
Amblyopsidæ	1	472
	14	645
Amblyopsis spelæus	6	144
Amelurus	11	274
Amia calva	9	229
	11	292
	14	642
Amiatus calvus	14	642
Amiidæ	14	642
Ammocrypta	24	251
pellucida	24	251
Ammodytidæ	14	650
	24	251
Amphimixis	11	273
Amphipnoidæ	14	644
Amphisticus argenteus	26	62
Anabantidæ	14	647
Anabasidæ	13	61
Anableps	1	601
Anacanthini	14	650
Anarrhichadidæ	14	650
Anarrhichas lupus	29	440
Anarrhichidæ	29	440
Anaspida	21	35
Anchovy	1	653
	14	643
Angel-fish	5	89
	19	359
Angler	13	60
Anguilla	11	273
Anguillidæ	14	644
Anodonta	2	5
Anoplopomidæ	14	649

Fish — cont'd	Vol.	Page
Antacea	14	636
Antedon rosaceus	11	75
Antennariidæ	14	650
Antiarcha	21	36
Antigoniidæ	14	649
Apeltes	25	645
Aphredoderidæ	14	647
Aplodactylidæ	14	649
Aplodinotus grunniens	9	352
Apodes	14	644
Apogonidæ	14	647
Arbacia punctulata	24	477
Archer-fish	2	167
Arches	14	649
Architeuthis	25	465
Archoplitis interruptus	24	91
	26	36
Archosargus probatocephalus	24	676
Arctocephalus delalandi	24	482
Arctocephalus forsteri	24	482
Arctocephalus gazella	24	482
Arcturus	27	97
Argentine	2	221
Argentinidæ	14	643
	25	109
Argidæ	14	644
Argyrosomus	6	698
	29	275
	29	276
Argyrosomus artedi	6	698
	29	276
Argyrosomus hoyi	29	276
Argyrosomus negropennis	29	276
Arius	11	292
Artedi, petrus	14	650
Arthrodira	11	266
	14	641
Artocephalus	24	482
philippi	24	482
townsendi	24	482
Aspidocephali	21	35
Aspidophorus	27	56
Aspidorhynchidæ	14	642
Asterolepis	2	446
Asterospondyli	14	636
Astronesthidæ	14	643
Ateleopodidæ	14	650
Atherine	2	497
Atherinidæ	14	646
Aulorhynchidæ	14	646
Aulostomidæ	14	646
	27	100
Aurelia flavidula	16	11
Bachelor	3	16
Baikalfishes	14	649
Balænoptera	11	215
	23	242
	29	231
physalus	23	688
Balænopteridæ	23	688
Balao	3	71
Balistes	27	55
Balistidæ	11	206
	14	649
	17	201
	27	55
carolinensis	27	55
Banana-fish	16	646
Band-fish	3	136
	14	647
Barbel	3	234
	11	271
Barbudo	18	213
Barracuda	3	275
	14	646
Barramunda	3	275
Basket-fish	3	313
Basking-sharks	14	637
Bass	3	315
	14	647

Fish — cont'd	Vol.	Page
black	3	315
culture of	3	316
Oswego	21	39
rock	3	316
	23	287
	23	596
sea	21	570
	24	472
silver	14	647
strawberry	25	723
striped	3	315
	11	268
white	3	315
yellow	3	315
Batfish	3	330
	13	60
	23	238
Bathyclupeidæ	14	647
Bathygadus	13	460
Bathymasteridæ	14	649
Bathyonidæ	14	650
Bathypteroidæ	14	643
Batoidei	14	637
	23	238
Batrachoididæ	14	649
Batrachus	26	658
tau	26	658
Bayad	3	360
Bdellostomidæ	8	363
Belonidæ	14	645
Bembridæ	14	649
Benthosauridæ	14	643
Berycidæ	14	646
Berycoidei	14	646
Berycoids	14	646
Beryx	3	584
Betta pugnax	11	208
Bichir	3	680
Bielugu	3	690
Billfish	3	705
	25	366
Black-angel	5	89
Blackfish	4	34
	4	41
	13	120
Blackhorse	4	41
Blanket-rays	23	238
Blanquillo	4	63
	29	633
Bleak	4	74
Bleekeriidæ	14	650
Blenniidæ	14	650
Blennioidea	14	649
Blenny	4	79
	14	649
Blick	4	74
Blind-fishes	14	645
Blinkers	18	70
Blue-angel	5	89
Blueback	4	128
Blue cod	14	649
Bluefish	4	129
	14	647
Bluejack	12	730
Blue tang	26	73
Boarfish	4	136
	14	649
Boccaccio	23	596
Bodianus	20	339
Bodieron	4	144
Bolti	4	196
Bonefish	16	646
Bonito	4	218
Bonnet-head	4	220
Bony fishes	14	642
Bottlehead	4	318
Bottlenose	4	318
Bouto	4	355
Bovichthyidæ	14	649
Bowfin	4	364
	9	229

Fish — cont'd	Vol.	Page
	14	642
Bowhead	4	364
	13	436
	29	232
Brachypterus	4	41
Brama rail	22	341
Bramidæ	14	647
Branch-herring	1	360
Bramble-sharks	14	637
Bream	4	452
Bregmacerotidæ	14	650
Brotulidæ	14	650
Brotulophidæ	14	650
Buffalo-fish	4	694
	11	268
Bullheads	5	16
Bultëe	4	196
Bummaloti	5	22
Bunocephalidæ	14	644
Buno-cephalus	11	273
Burbot	5	32
	17	459
Butter-fishes	5	87
Butterfly fishes	13	30
	14	646
	22	341
	26	73
Cabeson	5	118
Cabrilla	5	128
spotted	16	166
Cæsionidæ	14	647
Cake urchins	24	477
Calamary	5	155
Callionymidæ	14	649
Callionymus lura	9	296
Callichthyidæ	14	644
Callorhynchidæ	14	637
Callyodontidæ	14	648
Cana-bota	5	288
Candle-fish	5	497
Capelin	5	568
Caplin	5	568
Caracanthidæ	14	649
Carangidæ	5	583
	14	647
	22	88
	22	342
	24	345
	24	597
Carassius auratus	11	274
	13	30
Carcharias littoralis	24	659
Carchariidæ	24	251
Carcharinus glaucus	24	659
Carcharinus obscurus	24	659
Carcharodon	14	637
carcharias	24	659
rondeletii	2	567
Cardinal-fish	5	602
Carencheli	14	644
Caribe	5	610
Carp	5	650
	11	274
	14	644
lake	16	657
Prussian	12	643
Carpiodes	5	650
velifer	25	366
Catalufas	14	647
Cataphracti	6	45
Catastomidæ	22	244
Catfish	6	50
	14	641
	14	644
channel	6	50
Mississippi	19	248
mud	6	51
Potomac river	6	50
spoon-bill	21	92
Catostomidæ	6	107
	14	643

Fish — cont'd	Vol.	Page
Catostomus	25	786
occidentalis	24	91
Caulolatilus princeps	29	633
Cavallas	14	647
Cavally	6	138
Centrarchidæ	3	315
	6	213
	14	647
	26	36
Centriscidæ	14	646
Centriscus scolopax	25	147
Centrolophus niger	4	41
Centropomidæ	14	647
Centropristis striatus	24	472
Cephalacanthidæ	13	575
	14	649
Cepolidæ	14	647
Ceratiidæ	14	650
Ceratodontidæ	14	639
	14	641
Ceratodus	6	222
	9	141
Cerdalidæ	14	650
Cero	6	226
Cestracion	6	232
	20	503
Cestraciontes	14	636
Cetomimidæ	14	643
Cetorhinidæ	14	637
Cetorhinus maximus	24	660
Chacidæ	14	644
Chænichthyidæ	14	649
Chætodontidæ	14	648
	14	649
Chalcides	6	569
Chalinura	13	460
Champsodontidæ	14	649
Chanidæ	14	643
Char	6	390
Characidæ	14	643
Chatodontidæ	14	646
Chaulíodontidæ	14	643
Cheilodipteridæ	5	602
Chelmon rostratus	2	167
Chiasmodontidæ	14	649
Chiasmodus	8	583
Chilobranchidæ	14	644
Chimæra	14	636
	14	637
	14	639
Chimæridæ	6	513
	14	637
Chimæroidea	6	513
	14	323
	14	637
Chirocentridæ	14	643
Chirotenthidæ	25	465
Chlamydoselache anguineus	24	660
Chlamydoselachidæ	14	636
Chlariidæ	14	644
Chogset	8	303
Chondropterygii	14	636
Chondrostei	6	587
	14	642
	25	755
Chonerhinidæ	14	649
Chopas	14	647
Chromides	14	647
Chrysophrys aurata	24	473
Chub	6	650
Chuckle-head	6	50
Cichlidæ	14	648
Cirrhitidæ	14	649
Cirrhitoidea	14	649
Cisco	6	698
	25	110
Cladistia	14	640
Cladophiuræ	20	707
Clamydoselache	24	476
Cling-fishes	14	649

Fish — cont'd	Vol.	Page
Clupanodon pilchardus..	24	298
Clupea	24	298
	24	636
cæruleus	24	298
finta	24	636
palasa	14	192
pilchardus	22	84
sapidissima	24	636
Clupeidæ	7	139
	14	149
	14	643
	29	274
Coalfish	22	319
Cobitidæ	14	643
Cod	7	191
Codfishes	14	650
Cœlorhynchus	13	460
Cœnobitidæ	16	694
Comephoridæ	14	649
Comephorus baikalensis	13	39
	20	629
Congridæ	14	644
Congrogadidæ	14	650
Coracoids	14	641
Coregonus	6	698
	7	690
	29	275
clupeiformis	7	690
	11	267
	11	274
	29	275
quadrilateralis	22	89
	29	276
vandesius	27	725
Corphyænoides	13	460
Coryphæna	8	31
Coryphænidæ	14	647
Cottidæ	14	649
	24	457
	27	56
Cottus bubalis	11	55
Cottuso	27	56
Cowfish	13	120
Cow-pilot	8	134
Craniomi	14	649
Crappie	8	161
Crenilabrus pavo	21	450
Cristivomer	16	661
	24	195
Cryptacanthodidæ	14	650
Cryptobranchus alleghaniensis	14	83
Ctenoid	8	277
Ctenoidei	14	645
Cuchia	8	289
Culper	8	297
Cunner	8	303
Cusk	8	335
	14	650
Cutlips	8	342
Cuttlefish	8	344
Cuvier	14	650
Cyanea arctica	16	11
Cycliæ	8	363
	11	266
	14	635
Cyclogasteridæ	14	649
Cyclopteridæ	14	649
Cyclopterus	9	154
lumpus	17	738
Cyclospondyli	14	637
Cyclostomi	8	363
	11	266
	13	614
	14	637
Cynoscion	29	123
macdonaldi	4	130
parvipinnis	4	130
regalis	11	274
Cyprinidæ	5	650
	6	650
	8	369

Fish — cont'd	Vol.	Page
Cyprinidæ	14	644
	23	556
Cyprinodontidæ	8	369
	16	412
Cyprinus carpio	11	274
Cyrinus carpio	5	650
Cystoflagellata	20	387
Dab	8	385
Dace	8	387
	14	644
horned	8	387
Dactyloptera	27	56
Dalatiidæ	14	637
Dallia	11	274
pectoralis	4	34
Dalliidæ	14	645
Damsel-fishes	14	648
Darters	8	481
	14	647
	17	594
Daryrhamphus	22	110
Dasyatidæ	14	637
	25	652
Dawalia	8	515
Decapoda	25	465
Decapterus punctatus	24	345
Delphinidæ	9	239
	13	120
	16	412
	22	376
Delphinus delphis	9	239
	22	376
Dentex	8	688
vulgaris	8	688
Derichthyidæ	14	644
Devil's-finger	9	40
Diadema	24	477
Dictyopygidæ	14	642
Diodon	9	133
Diodontidæ	14	649
Diplomystidæ	14	644
Dipneusta	11	266
Dipneusti	14	639
	14	640
Dipnoans	14	640
Dipnoi	2	106
	9	141
	11	266
	14	640
	17	309
	17	740
Discoboli	9	154
Discobolus	9	154
Discocephali	14	649
	23	366
Dog-salmon	9	229
Dollar-fish	9	236
Dolly Varden	27	97
Dolphin	9	239
	14	647
	22	376
Doncellas	14	648
Dormeur	9	266
Dorse	9	269
Dorosomidæ	14	643
Dorypteridæ	14	642
Dory	9	270
Draconettidæ	14	649
Dragonet	9	296
	14	649
Drepanidæ	14	649
Drum	9	352
	14	647
Drumfish	9	352
Dussumieriidæ	14	643
Dysommidæ	14	644
Echeneis naucrates	23	366
Echinarachinus parma	24	477
Echineididæ	14	649
	23	366
Echinoidea	24	477
Echinorhinidæ	14	637

Fish — cont'd	Vol.	Page
Echinorhinus spinosus	24	660
Eel	9	713
	11	273
	14	644
conger	7	499
	14	644
deep-sea	14	644
electric	10	103
mud	19	547
pout	9	713
	17	459
rice-field	14	644
sand	24	251
snake	25	144
snipe	25	147
spiny	14	644
true	14	644
vinegar	9	713
Egg-fish	9	728
Eggurchin	24	477
Elasmobranchs	14	636
Elasmobranchii	10	48
	11	266
	24	534
Elassomidæ	14	647
Electrophoridæ	14	644
Eledone moschata	20	575
Elephant-fishes	14	637
Ellwife	1	360
Elopidæ	14	643
Embiotocidæ	11	272
	14	648
	26	62
Enchelophis	21	291
Engrauidæ	14	643
Enneacanthus gloriosus	26	36
Enteropneusta	11	266
	14	635
Epialtus productus	16	345
Ephippidæ	14	649
Ephyræ	16	11
Epinephelus adcensionis	23	596
Erato	10	468
Erilepidæ	14	649
Erythrinidæ	14	643
Esocidæ	14	645
	17	718
Eucalia	25	645
Eulachon	5	497
Eulamia nicaraguensis	24	659
Eupomotis	26	36
Eurypharyngidæ	14	644
	21	484
Eurypharynx	21	484
Eventognathi	14	643
Evermannellidæ	14	643
Exocœtidæ	11	407
	14	645
Fahaka	10	711
Fall-fish	10	731
Fat-back	11	53
Fatherlasher	11	55
Fat priest	14	649
Fierasfer	21	291
Fierasfer affinis	21	291
Fierasferidæ	14	650
Fin pectoral	11	267
ventral	11	267
Finback	11	215
	23	688
	29	231
Fish	11	266
	14	635
	23	618
acanthopterygii order	14	645
anadromous	11	290
as food for man	11	274
band	20	531
black rock	23	596
blind	6	144
butterfly	14	649
catadromous	11	290

Fish — cont'd	Vol.	Page
cerebellum	11	271
cerebrum	11	271
circulatory system of	11	269
classification of	14	635
climbing	7	112
coffer	7	212
coral	5	89
	7	677
cornet	14	646
crest	14	650
culture	11	278
cutlass	14	647
	24	348
cycloid	8	362
cyclostomes	11	272
deal	8	537
	14	650
devil	9	39
	14	637
	29	232
dog	9	228
	14	637
	19	547
	24	660
double-breathing	2	106
ear of	11	270
electric	10	106
elephant	10	222
embryology and growth of	11	273
evolution of	11	275
exoskeleton of	11	266
eyes of	11	270
fauna	11	290
fiddle	19	359
fighting	11	208
file	11	206
	14	649
fins of	11	267
fly	11	279
flying	14	645
fork-tailed Mississippi cat	6	59
form of body	11	266
frog	12	118
	13	60
frost	12	126
	26	682
ganoid	12	275
guitar	23	239
hybridism in	11	273
ice	14	643
ichthyology	14	635
isospondyli order	14	642
king	20	698
lizard	14	643
	14	653
	17	546
mailed-cheek	14	649
mango	18	213
margate	18	280
milk	14	643
	19	108
monk	14	637
	19	359
movement of	11	289
muscular system of	11	267
needle	12	277
nervous system of	11	271
olfactory nerves	11	272
optic nerves	11	272
organs of circulation	11	269
organs of nutrition	11	269
organs of reproduction	11	272
organs of respiration	11	269
organs of sense	11	270
organs of sight	11	270
paddle	14	642
	21	92
paradise	21	274

Fish — cont'd	Vol.	Page
parasitic	21	291
parrot	14	648
	21	345
pearl	14	650
peacock	21	450
pelican	21	484
pilot	22	88
pine-cone	14	646
pipe	14	646
	22	110
porcupine	14	649
rabbit	23	105
rag	14	647
ribbon	24	476
rock	3	315
	21	570
	23	596
round white	22	89
royal	11	277
rudder	23	752
science of	14	635
sense of taste	11	271
sense of touch	11	271
skeleton of	11	268
skull of	11	268
slave	14	647
soap	14	647
	17	546
spade	21	92
species, habitat of	11	291
sucking	23	366
sun	20	698
teleostomi class	14	639
telescope	13	30
tongue	26	686
true	14	639
trunk	7	212
turquoise blue parrot	21	345
viper	14	643
voices of	11	271
walking	24	598
white	22	89
	29	275
wolf	14	650
	29	440
Fishes	19	49
	29	730
barriers checking movement of	11	289
classification of	14	635
fresh water, distribution of	11	290
geographical distribution of	11	288
nest-making by	11	291
singing	11	271
Fistularia	22	110
tabaccaria	22	110
Fistulariidæ	14	646
	27	106
Flannel-mouth	11	334
Flashers	14	647
Flatfish	11	335
Flounder	11	335
	11	382
	14	647
Fluke	11	402
Flying-fish	11	355
	11	407
Fringe-fins	14	639
Fundulus heteroclitus	16	412
Fundulus majadis	16	412
Gadidæ	12	216
	13	608
	13	629
	14	650
Gadopsidæ	14	649
Gadus callarias	9	269
Galaxiidæ	14	643
Galei	14	637
Galeorhinidæ	14	637
Galeorhinus zyopterus	20	632

Fish — cont'd	Vol.	Page
Galeus canis	24	660
Galliwasp	17	546
Gambusia patruelis	26	699
Ganoidei	14	641
Ganoids	14	640
Gar	12	277
	14	645
pike	12	277
Garrupa	12	299
nigrita	16	59
Gaspereau	1	360
Gasterosteidæ	11	273
	14	646
	25	645
Gasterosteus	27	56
Gastrosteus	24	527
Gastrostomus	21	484
Gecarcinidæ	16	694
Gecarcinus ruricola	16	694
Geocarcoidea calandi	16	694
Gerridæ	14	647
Gibel	12	643
Gilteye	12	658
Gilthead	12	658
Ginglymostoma cirratum	20	503
Ginglymostomidæ	14	637
Girdle of Venus	12	665
Glass-eye	28	233
Globefishes	12	718
	14	649
	23	105
Globicephala	13	120
Globicephalus	4	41
Glyptocephalus cynoglossus	11	402
Gnathanacanthidæ	14	650
Goat-fish	12	741
Gobies	14	649
Gobiesocidæ	14	649
Gobiidæ	9	296
	14	649
Gobioidea	14	649
Goby	12	743
Goggle-eye	13	7
Goggler	13	7
Goldropsaurus	23	601
Goldfish	11	274
	13	30
Golomynka	13	39
Gonatus amœnus	24	483
Gonorhynchidæ	14	643
Gonostomidæ	14	643
Goody	13	59
Goose-fish	13	60
Goramy	13	61
Goujon	6	51
Gouramies	14	647
Gourd-seed	13	85
Grammicolepidæ	14	647
Grampus	13	120
	22	375
	22	376
griseus	13	120
Grande ecailié	26	273
Grayling	13	167
	14	643
Greenlings	13	437
Greenfishes	14	649
Grenadier	13	460
	14	650
Groupers	13	498
Grunts	14	647
Guacamaia	21	346
Guativere	20	339
Gudgeon	13	522
Guitar-fishes	14	637
Gurnards	13	575
flying	13	575
	14	649
Gymnarchidæ	14	644
Gymnodontes	9	133
	14	649

Fish — cont'd	Vol.	Page
Gymnodonts	13	591
Gymnonoti	14	643
	14	644
Gymnotidæ	14	644
Haddock	13	608
Hæmulidæ	14	647
Hæmulon	11	271
	23	677
album	19	280
Hagfishes	13	614
	17	594
Hakes	13	629
	14	650
Half-beaks	14	645
Halibut	13	637
Halosauridæ	14	643
Hammerheads	14	637
Haplodoci	14	649
Haplomi	14	645
Happlochitonidæ	14	643
Hare-lip	8	342
Hariotta	14	637
Harpagiferidæ	14	649
Harvest-fishes	14	647
Head-fishes	14	649
Heart urchin	24	477
Heliozoa	14	80
Helmet-shell	14	84
Helostomidæ	14	647
Hemerocœtidæ	14	649
Hemibranchii	14	646
	22	110
	25	645
	27	106
Hemiramphidæ	14	645
Hemiscyllidæ	14	637
Hemitripterus americanus	24	458
	24	476
Hepadiodontidæ	14	649
Herring	14	149
	14	643
European	22	84
glut	12	730
lake	16	660
round	14	643
Heterocongridæ	14	644
Heterodontidæ	14	636
Heterodontus	11	272
Heterognathi	14	643
Heteromi	14	644
Heterosomata	14	647
Heterostichus rostratus	16	345
Heterostraci	21	35
Heterotis	11	292
Hexagrammidæ	14	649
Hexagrammus decagrammus	23	597
Hexanchidæ	14	636
Hilsa	14	192
Hind	5	128
Hiodontidæ	14	643
Hippocampidæ	14	646
Hippocampus	24	474
hudsonicus	24	474
Hippoglossus hippoglossus	13	637
Hipponoë esculenta	24	477
Hissar	14	205
Hog molly	17	594
Hog-sucker	25	786
Holocentridæ	14	646
Holocephali	6	513
	11	266
	14	323
	14	636
	14	637
Holconoti	14	648
Holostei	14	323
Holostomi	14	644
Homalopteridæ	14	643
Hoplichthyidæ	14	649
Hybopsis kentuckiensis	6	650
Hymenocephalus	13	460
Hyperacoracoid	14	641
Hyperoartia	8	363
Hypocoracoid	14	641
Hypomesus pretiosus	25	110
	26	62
Hypophthalmidæ	14	644
Hypophthalmus dawalla	8	515
Hypostomides	14	646
Ichthyocephali	14	644
Ichthyology	14	635
history of systematic	14	650
Ichthyotomi	14	636
	14	639
Icosteidæ	14	647
Ictalurus furcatus	6	50
Ictiobus bubalus	11	268
Idacanthidæ	14	643
Ide	14	661
Idioseplon	25	465
Ilarchidæ	14	649
Ilyophidæ	14	644
Inia	22	376
Iniomi	14	643
	17	546
Ipnopidæ	14	643
Isabellitas	5	89
Isopholidæ	14	642
Isospondyli	14	642
	14	643
Istiophoridæ	14	647
Istiophorus nigricans	24	112
Isurus	14	637
Jack fish	15	572
Jaw-fishes	14	647
Jewfish	16	59
Joak	15	618
John Dory	9	270
	14	646
John Paw	16	165
Johnny Verde	16	166
Juan Verde	16	166
Jugulares	14	649
Jurel	16	254
Katsuo	16	317
Kelp-fish	16	345
Kelt	16	346
Killer	16	412
Killifish	14	645
	16	412
King cero	16	442
Kingfish	16	442
King salmon	16	440
Knerlidæ	14	643
Kogia	16	508
Kuhliidæ	14	647
Kyphosidæ	14	647
Kyphosus analogus	24	181
Kyphosus sectatrix	24	181
Labridæ	14	648
	16	624
	29	565
Labyrinthici	14	647
Ladyfish	14	643
	16	646
Lagocephalus	23	105
Lamna	14	637
cornubica	24	660
cornutica	22	369
Lamnidæ	14	637
	22	369
Lamprey	16	684
Lamprididæ	14	646
Lancelet	11	270
Lancet-fishes	14	643
Lantern-fish	14	643
	16	737
Latilidæ	14	647
Latrididæ	14	649
Latris hecateia	27	106
Lawyer	17	155
Leatherjacket	17	201
Leiognathidæ	14	647
Leiostomus xanthurus	13	59
Leopard-shark	17	304
Lepidopidæ	14	647
Lepidopus caudatus	24	345
Lepidosiren	9	141
	11	274
	17	309
Lepidosirenidæ	14	641
Lepidosiren paradoxus	14	641
Lepidostei	14	642
Lepidosteus	22	83
Lepidotidæ	14	642
Lepisosteidæ	14	642
Lepomis	26	36
Leptocardii	11	266
	14	635
Leptodiscus	20	387
Leptolepidæ	14	643
Leuciscus leuciscus	8	388
Leuciscus idus	14	661
Leuciscus rutila	23	556
Lineus longissimus	20	70
Ling	17	459
Liparididæ	14	649
Lipogenyidæ	14	644
Loaches	14	643
Loboles surinamensis	9	266
Lobotidæ	14	647
Log-perch	8	481
Loliginidæ	25	465
Loligo pealii	25	465
Lophalatilus chameleonticeps	26	624
Lophiidæ	14	650
Lophius piscatorius	18	60
Lopho branchu	14	646
	17	655
	22	110
	24	474
Lophotidæ	14	650
Loricariidæ	14	644
Lota molva	17	459
Louvaridæ	14	647
Louvars	14	647
Luciidæ	17	718
americanus	22	82
reticulatus	22	82
vermiculatus	22	82
Luciopersa sandra	22	83
Luciopersa European	22	83
Luciophalidæ	14	647
Lucius lucius	22	82
Lump-fishes	14	649
Lumpsucker	17	737
Lung-fishes	14	639
Lutianidæ	14	647
Lutianus	11	273
Lutjanidæ	25	145
Lyomeri	14	644
Lyopomi	14	643
Lysopteri	14	642
Machuelo	18	62
Mackerel	14	647
	18	90
chub	6	650
horse	27	165
Spanish	16	442
	25	358
Mackerels, king of	16	438
Macropharyax	21	484
Macrorhamphosidæ	27	106
Macrosemiidæ	14	642
Macrourus	23	224
bairdi	23	224
Macruridæ	14	650
Macrurus armatus	8	583
Macrurus rupestris	13	460

Fish — cont'd	Vol.	Page
Mad Tom	18	93
Mænidæ	14	647
Mahaseer	18	185
Malgre	18	139
Malacanthidæ	14	647
	20	621
Malacopteri	18	158
Malacopterygii	18	158
Malacosteidæ	14	643
Mantidæ	9	39
	23	238
birostris	9	39
Marcorhamphosidæ	14	646
Maskinonge	18	378
	19	652
Mastacembelidæ	14	645
Maurolicidæ	14	643
May-sucker	8	342
Meagre	18	189
Medusa	18	591
Medusa's-head	3	313
Megalobatrachus maximus	14	83
Megalops thrissoides	26	273
Megaptera	14	495
Melanogrammus	13	608
Mellita testudinata	24	477
Menhaden	18	629
	22	374
Menidæ	14	647
Menominee	22	89
Menticirrhus americanus	24	475
Menticirrhus saxatilis	16	442
Mesichthyes	14	645
Merlucciidæ	14	650
Merluccius	13	629
Mermaid's head	18	677
Mermaid's purse	18	677
Mero	18	677
Merou	18	677
Mesocorocoid arch	14	642
Metencephalon	11	271
Microgadus tomcod	26	682
Micropterus dolomieu	3	316
Micropterus salmoides	3	316
Microstomidæ	14	643
Miller's-thumb	19	123
Mink, sea	24	475
Minnows	14	644
	19	208
mud	14	645
	19	547
top	26	609
Mitsukurina owstoni	24	660
Mitsukurinidæ	14	637
Mizdet	21	79
Mobulidæ	14	637
Moira atropos	24	477
Mojarras	8	134
	14	647
Mola-mola	26	86
Molidæ	14	649
Monacanthidæ	11	206
	14	649
Monacanthus	11	206
Monocentridæ	14	646
Monodon	22	375
Monopteridæ	14	644
Moon-eyes	14	643
	19	427
Mooneye cisco	19	427
Moonfish	19	427
Moorish idols	14	649
Morays	14	644
	19	442
Moringuidæ	14	644
Mormyridæ	14	644
	19	466
Mormyrus	11	292
	19	466
oxyrhynchus	21	79

Fish — cont'd	Vol.	Page
Morone americana	21	570
Morone interrupta	3	315
	21	570
Morone labrax	3	315
Moss-bunker	19	508
Motella	23	601
Mud-fish	9	229
	19	547
Mugil cephalus	19	560
Mugil curema	19	560
Mugil gyrans	19	560
Mugilidæ	14	646
Mullets	14	646
	19	559
beardless	14	647
king of	5	602
Mullidæ	14	647
Mullus barbatus	11	274
	19	559
Muræna	19	598
Muræsenocidæ	14	644
Murænidæ	14	644
Murral	19	609
Muscalonge	22	82
Muskellonge	22	82
Muskellunge	18	378
Mustelus	9	228
canis	9	228
Myctophidæ	14	643
Myliobatidæ	9	475
	14	637
	23	238
Myliobatis	26	288
californicus	26	288
Myoxocephalus grœnlandicus	24	458
Myrocongridæ	14	644
Myxine	18	614
glutinosa	18	614
Myxinidæ	8	363
Namaycush	19	686
Nandidæ	14	647
Narcobatidæ	14	637
	26	239
Narwhal	19	711
Naucrates auctor	22	88
Naucrates ductor	2	567
Nauplius	8	264
Needlefish	20	89
Nematistiidæ	14	647
Nematognathi	14	643
	20	69
Nemertinea	20	69
Nemichthyidæ	14	644
	25	147
Neoceratodus forsteri	14	641
Neoceratodus miolepis	14	641
Nettasomidæ	14	644
Nigger chub	20	339
Niggerfish	20	339
Noctiluca	20	387
miliaris	20	387
Notacanthidæ	14	644
Notechis sculatus	26	623
Notochord	11	268
Notopteridæ	14	643
Notothenidæ	14	649
Notropis hudsonius	25	364
Oar fish	14	650
	20	531
Odacidæ siphonognathidæ	14	648
Odontaspididæ	14	637
Ogcocephalidæ	14	650
Oil-fish	13	39
	20	629
Oil shark	20	632
Ommastrephidæ	25	465
Oncorhynchus	11	274
	20	688
gorbuscha	14	494

Fish — cont'd	Vol.	Page
keta	9	229
schawytscha	16	440
Onychodontidæ	14	639
	14	640
Oolakan	5	497
Opahs	14	646
	20	698
Ophiadontidæ	14	649
Ophichthyidæ	14	644
Ophidiidæ	14	650
Ophidioidea	14	650
	21	291
Ophiocephalidæ	14	647
Ophiocephalus	24	498
Ophuiroidea	20	706
Opisthognathidæ	14	647
Opisthomi	14	644
Oplegnathidæ	14	647
Orcinus orca	13	120
	16	412
Orectolobidæ	14	637
Orthopristis chrysopterus	24	119
Osmerus	25	109
Osphromenidæ	14	647
Osphromenus	13	61
Ostariophysæ	14	643
	14	644
Osteoglossidæ	14	643
Ostraciidæ	14	649
Ostracodermi	14	649
	21	35
	27	107
Ostracophores	21	35
Ostracophori	11	266
	14	461
Otoës	24	482
alascanus	24	482
curilensis	24	482
ursinus	24	482
Otoliths	11	271
Ouananiche	21	50
Oulachon	5	497
Oxudercidæ	14	649
Oxyhabracidæ	14	647
Oxynotidæ	14	637
Oxyrhynchus	21	79
Palæichthyes	14	641
Palæoniscidæ	14	642
Palinurus	23	752
perciformis	23	752
Pamelobus	24	636
Panmixia	11	289
Pantodontidæ	14	643
Papagallos	14	647
Paralabrax maculatofasciatus	16	166
Paralabrax nebulifer	16	166
Parasilpididæ	14	643
Pareiopliæ	14	649
Patæcidæ	14	650
Pediculati	13	60
	14	650
Pegasidæ	14	646
Pelagia	16	11
Pelican-fish	21	484
Pempheridæ	14	647
Pentacerotidæ	14	647
Perca flavescens	21	570
Percesoces	14	645
Perch	14	648
	21	570
	24	91
climbing	7	112
	14	647
log	17	594
pigmy	14	647
pike	22	83
pirate	14	647
river	14	647
stone-wall	14	647

Fish — cont'd	Vol.	Page
Perch, white	21	570
yellow	21	570
Percidæ	14	647
	31	570
	26	36
Percina caprodes	8	481
Percophidæ	14	649
Percopsidæ	14	645
Pericoidea	14	647
Peristediidæ	14	649
Petromyzon	11	273
Petronyzon	11	292
Pharyngeals	11	269
Pharyngognathi	14	647
	14	648
Pholidiæ	14	650
Pholidophoridæ	14	642
Phthinobranchii	14	646
Phycis	13	629
Phylloperyx	24	474
Physoclysti	14	645
Picarel	14	647
Pickerel	15	572
	22	82
banded	22	82
western	22	82
Pike	11	274
	14	645
	22	82
	24	91
	28	233
gar	22	83
jack	22	82
Sacramento	25	465
sand	24	251
	24	316
saury	24	320
wall-eyed	15	572
	22	83
Pilchard	22	84
	24	298
Pilot-fish	2	567
Pirai	22	114
Piraya	5	610
	22	114
Pisces	11	266
	22	117
Pisciculture	11	278
Placodermi	11	266
Placoidei	22	140
Plagiostomia	11	266
Plagyodontidæ	14	643
Plaice	22	143
Platyhelminthes	20	69
Platycephalidæ	14	649
Platyptteridæ	14	649
Platysomidæ	14	642
Plecoglossus altivelis	11	274
Plectognathi	9	133
	14	649
	22	244
	27	107
Plectospondyli	6	107
	22	244
Pleuronectes platessa	22	143
Pleuronectidæ	11	335
	14	647
Pleuropterygii	14	636
Plotosidæ	14	644
Poeciliidæ	14	645
Pogonias chromis	9	352
Pogonichtys macrolepidotus	25	427
Poisson bleu	13	167
Polistotrema	13	614
stoati	13	614
Pollachius virens	22	319
Pollack	22	319
Polyacanthus viridicicaudatus	21	274
Polycentridæ	14	647

Fish — cont'd	Vol.	Page
Polydactylus virginicus	18	213
Polymixiidæ	14	646
Polynemidæ	14	646
Polyodon spathula	21	92
Polyodontidæ	14	642
	25	755
Polypteridæ	14	639
Polypterus	14	639
	22	355
Polypterus bichir	22	335
Pomacentridæ	14	648
Pomatomidæ	14	647
Pomatomus saltatrix	11	274
Pomfrets	14	647
	22	341
Pomoxis sparoides	25	723
Pompano	22	342
Porbeagle	18	71
	22	369
Porgee	22	374
Porgies	14	647
Porgy	22	374
Porichthys notatus	11	271
Præcoracoid arch	14	642
Priacanthidæ	14	647
Prinotus carolinus	27	56
Prionotus	13	575
	24	476
carolinensis	24	476
strigatus	24	476
Pristidae	23	239
	24	332
Pristididæ	14	637
Pristiophoridæ	14	637
	24	660
Pristis pectinatus	24	332
Pristisphoridæ	24	332
Promethichthys prometheus	23	105
Promicrops guttatus	16	59
Prosencephalon	11	271
Protopterus	9	141
	11	292
annectens	14	641
Pseudochromididæ	14	647
Pseudobranchia	11	269
Pseudo-scarus guacamaia	21	346
Pseudotriakidæ	14	637
Pteraclididæ	14	647
Pterothrissidæ	14	643
Pterygials	14	641
Ptilichthyidæ	14	650
Ptychodontidæ	14	637
Ptyochelus oregonensis	25	464
Pycnodonti	14	642
Pygidiidæ	14	644
Pygosteus	25	645
Quasky	27	97
Quinnat	16	440
Rabbit-mouth	8	342
Rachicentridæ	14	647
Rajidæ	14	637
	23	238
maculata	23	238
oxyrhynchus	23	238
Ranzania makua	16	438
Ranzania truncata	16	438
Rasher	23	596
Rat-tail	23	224
Raven, sea	24	458
	24	476
Ray-fins	14	639
Rays	14	636
	23	238
electric	23	239
Ray, eagle	9	475
	14	637
	23	238
European sharp-nosed	23	239
homelyn	23	239

Fish — cont'd	Vol.	Page
Razorback	23	242
Redeye	23	287
Redfish	9	352
	23	287
Red-spotted bull	27	97
Reedfish	23	296
Regalecidæ	14	650
Regalecus banksi	20	531
Regaleidæ	24	476
Remoras	14	649
	23	366
Remora brachyptera	23	366
Remora remora	23	366
Rhamphocottidæ	14	649
Rhamphosidæ	14	646
Rhegnopteri	14	646
Rhineodontidæ	14	637
Rhinichthys atronasus	11	292
Rhinidæ	14	637
Rhinobatidæ	14	637
	25	839
Rhinochimæra	14	637
Rhinochimæridæ	14	637
Rhodeus amarus	11	273
Rhombus maximus	27	174
Rhombus triacanthus	9	236
	22	341
Roach	23	556
Robalos	14	647
Roccus chrysops	3	315
Roccus lineatus	3	315
	11	268
Rock-beauty	5	89
Rockfish	17	594
orange	23	596
red	23	596
Rockling	23	601
Rogenia	29	274
alba	29	274
Roncador	23	677
stearnsi	23	677
Ronco	23	677
Rondeletiidæ	14	643
Ronquils	14	649
Rose-fish	14	649
	23	596
	23	596
Rypticidæ	14	647
Sabalo	24	78
Saccopharyngidæ	14	644
Sailfish	14	647
	24	112
Sailor's choice	24	119
Salangidæ	14	643
Salema	24	181
Salmo gairdneri	24	193
	24	194
Salmo irrideus	23	185
Salmo quananichi	21	50
Salmo salar	24	195
Salmo sebago	24	498
Salmo trutta	24	195
	24	477
Salmon	11	274
	14	643
	24	191
Atlantic	24	191
	24	195
blueback	24	192
Burnett	3	275
dog	24	193
embryo	24	192
Fraser River	12	22
humpback	24	192
land-locked	16	698
Pacific	24	192
parr stage in	24	192
quinnat	24	192
	24	193
Sacramento	24	91
sebago	24	498

Fish — cont'd	Vol.	Page
silver	24	192
steelhead	24	195
Salmonidæ	6	698
	6	690
	14	643
	24	191
	24	195
	27	96
Salmopercæ	14	645
Salpinctes obsoletus	23	597
Salvelinus	27	96
alpinus	27	96
alpinus aureolus	27	96
fontinalis	23	185
	27	96
malma	9	288
	27	96
namaycush	24	195
oquassa	27	96
Sand-darter	24	251
Sand dollars	24	477
Sand-launce	14	650
	24	251
Sand rollers	14	645
Sarda chiliensis	4	218
Sarda sarda	4	218
Sardines	24	298
Sargasso-fish	11	291
Sauger	24	316
Sauries	14	645
Savanilla	24	323
Sawbelly	1	360
Saw-fish	14	637
	23	239
	24	332
Sawsharks	24	660
Scabbard-fish	14	647
	24	345
Scad	24	345
Scammoni	4	41
Scaridæ	14	648
	21	345
	24	356
Scarpænidæ	23	696
Scarus cæruleus	21	345
Scatophagidæ	14	649
Sciæna aquila	18	139
Sciæna deliciosa	9	352
Sciæna saturna	23	677
Sciænidæ	9	352
	13	59
	14	647
	23	677
	24	412
	29	123
Sciænops ocellata	9	352
Sclerodermi	14	649
Scomberesox saurus	24	320
Scomberomorus maculatus	11	274
	25	358
Scombresocidæ	14	645
Scombridæ	14	647
	18	70
	24	425
Scombropidæ	14	647
Scorpænidæ	11	272
	14	649
	23	596
	24	426
Scorpididæ	14	647
Scorpions, sea	14	649
Sculpins	14	649
	24	457
Scup	22	374
	24	470
Scyliorhinidæ	11	272
	14	637
Scyphophori	11	292
	14	644
Scytalinidæ	14	650

Fish — cont'd	Vol.	Page
Sea-basket	3	313
Sea-bats	14	650
Sea-breams	24	473
Sea-devils	14	650
Sea-dragons	14	646
Sea-hedgehog	12	718
Sea-horse	14	641
	14	646
	22	110
	24	474
Sea-moths	14	646
Sea-poachers	14	649
Sea-urchins	24	477
green	24	477
Sebastes	27	56
marinus	23	696
Sebastodes maliger	23	596
Sebastodes miniateus	23	596
Sebastodes mystinus	23	596
Sebastodes pauci spinus	23	596
Sebastodes pinniger	23	596
Sebastodes ruberrimus	23	596
Sebastodes rubrovinctus	23	596
See-adder	24	527
Selachii	14	636
	24	534
	24	659
Selachostomi	14	642
Selenichthyes	14	646
Semionotidæ	14	642
Semotilus atromaculatus	6	650
	8	387
Sepiadariidæ	25	465
Sergeant-fishes	14	647
Seriola	24	597
zonata	22	89
Serpent-head	24	598
Serranidæ	3	315
	14	647
	16	59
	21	570
	24	472
	24	601
Serranus	11	272
Serrasalmoninæ	5	610
Serrasalmo piraya	22	114
Shad	24	636
Allis	24	637
gizzard	14	643
mud	19	548
twaite	24	637
Shark	2	567
	14	636
	24	659
angel	24	660
basking	4	213
	24	660
beaumoris	22	369
blue	24	659
bone	4	213
cat	6	30
	14	637
dusky	24	659
fox	26	595
frilled	24	660
hammer-head	13	664
mackerel	18	71
man-eater	14	637
	24	659
nurse	20	503
oil	20	632
porbeagle	24	660
Port Jackson	20	503
	24	660
sand	14	637
	24	251
	24	659
saw	14	637
sleeper	24	660
soup-fin	20	632
spinous	24	660

Fish — cont'd	Vol.	Page
spoon-bill	14	637
thresher	14	637
	25	659
	26	595
tiger	26	623
white	2	567
species of	24	659
Shark's pilot	22	89
Sheepshead	9	352
	24	676
Shiner	24	714
Shrimp-fishes	14	646
Siganidæ	14	649
Sillaginidæ	14	647
Siluridæ	11	274
	14	644
Silver chub	10	731
Silver fish	13	30
Silver king	26	273
Silverside	14	646
	25	15
Simencheylidæ	14	644
Siphostorna	22	110
Siren	25	45
Sirenoidei	14	641
Sisoridæ	14	644
Skates	14	637
Skil-fishes	14	649
Skipjack	4	129
	24	320
Skipper, mud	19	548
Smelt	14	643
	25	100
pond	22	348
surf	25	110
	26	62
Snakehead-fishes	14	647
Snapper	14	647
	25	145
mangrove	18	213
Snipe-fish	14	646
	25	147
Sole	14	647
	25	289
Solenostomus	11	273
Soldier-fishes	14	646
Soleidæ	11	335
	14	647
Solenostomidæ	14	646
Somniosus microcephalus	20	503
	24	660
Sound	26	136
Spade-fishes	14	649
Sparidæ	14	647
	24	470
	24	473
	25	145
	25	360
Spatangoidea	24	477
Spawn-eater	25	364
Spearfish	25	366
Sphyræniidæ	14	646
Sphyrnidæ	14	637
Spikes	18	70
Spirula	25	424
Spirulidæ	25	424
Splitail	25	427
Squalidæ	14	637
Squalius cephalus	6	650
Squalus	9	228
acanthias	24	660
aranthias	9	228
Squamipinnes	14	648
Square-tails	14	647
Squatinidæ	14	637
	24	660
Squawfish	25	464
Squeteague	29	123
Squirt, sea	24	477
Stagnalis	27	97
Stargazers	14	649

Fish — cont'd	Vol.	Page
Stegocephali	14	640
Stegostoma tigrinum	26	623
Steindachneria	13	460
Steinegeriidæ	14	647
Stenotomus argyrops	22	374
Stenotomus chrysops	24	470
Stephanoberycidæ	14	647
Stereolepis gigas	16	59
Sternoptychidæ	14	643
Stichæidæ	14	650
Stickleback	14	646
	25	645
	27	56
Stingaree	25	652
Sting-ray	14	637
	25	652
Stizostedion	24	316
canadense	22	83
vitreum	22	88
	28	233
Stomiatidæ	14	643
Stone-roller	25	786
Streptophiuræ	20	706
Stromateidæ	9	236
	14	647
Strongylocentratus drobachiensis	24	477
Sturgeon	14	642
	25	755
lake	16	661
Sucker	14	643
	25	786
carp	5	650
razor-backed	14	494
sand	24	252
shark	28	366
Sun-fish	25	723
	26	36
Sunshines	14	647
Surf-fish	14	648
	26	62
Surgeon-fish	14	649
	26	73
Surmullets	14	647
Swordfish	14	647
	26	154
Symbranchia	14	644
Symbranchidæ	14	644
Symphurus	26	686
Synentognathi	14	645
	14	647
Syngnathidæ	14	646
	22	110
	24	474
fuscum	22	110
Syngnathus	22	110
Synodontidæ	14	648
	17	546
Synodus fœtens	17	546
Tæniosomi	14	650
Tangs	14	649
Tarpon	14	643
	26	273
atlanticus	26	273
Tautog	26	286
Tautoga onitis	26	286
Tectospondyli	14	637
Teleocephali	26	361
Teleostei	14	641
Teleostomi	11	266
	14	639
Teleosts	14	640
Tench	26	412
Tetragonuridæ	14	647
Tetraodontidæ	14	649
Tetrapturus	24	112
	25	366
Teuthidæ	26	73
Thaleichthys pacificus	11	274
Thelphusa	16	694
Thelphusidæ	16	694
Theraponidæ	14	647
Therobromus callorhini	24	483
Thoracices	14	645
Threadfins	14	646
Thunnus thynnus	27	165
Thymallidæ	13	167
	14	643
signifer	13	167
tricolor	13	167
Tile-fishes	14	647
	26	624
Tinca vulgaris	20	412
Tinkers	18	70
Toad-fishes	14	649
	26	658
Tomcod	26	682
Torpedinidæ	26	704
hebetans	26	704
marmorata	26	704
occidentalis	26	704
Torpedo	14	637
	26	704
Torsk	26	713
Toxoidæ	14	649
Toxopneustes	24	477
Toxotes jaculator	2	167
Trachichthyidæ	14	646
Trachinidæ	14	649
Trachinoidea	14	649
Trachinotus carolinus	22	342
Trachinus	29	159
Trachurops crumenopthalmus	24	345
Trachurus trachurus	24	345
Trachypteridæ	14	650
Triacanthidæ	14	649
Trichiuridæ	14	647
Trichiurus lepturus	24	345
Trichodontidæ	14	649
Trigger-fishes	14	649
	27	55
Trigla	27	56
Triglidæ	13	575
	14	649
	24	476
	27	56
Triodontidæ	14	649
Tropidichthyidæ	14	649
Trout	11	275
	14	643
	27	96
Arctic	27	97
blueback	27	97
bull	5	14
Dolly Varden	9	238
eastern brook	23	185
kamloops	16	288
lake	16	661
McCloud River	23	185
New Zealand	14	643
Oregon brook	20	782
perches	14	645
rainbow	23	185
rock	23	597
salmon	24	195
sea	24	477
sunapee	27	96
Trunk-fishes	14	649
	27	107
Tucuxi	4	355
Tuna	27	144
Tunicala	14	635
Tunicata	11	266
Tunny	27	165
Turbot	27	174
Tylosuras	22	83
Umbra	11	274
limi	19	547
pygmæa	19	547
Umbridæ	14	645
	27	267
Uranoscopidæ	14	649
Vendace	27	725
Vendis	27	725
Vomer setipennis	24	714
Walking-fish	14	650
Weakfish	29	123
Weavers	14	649
Weever	29	159
Whitebait	29	274
Whitefish	7	690
	22	89
	25	110
	29	275
Great Lake	11	267
humpback salmon	14	494
Whiting	29	279
Wrasse-fishes	14	648
	29	565
Wry-mouths	14	650
Xenocephalidæ	14	650
Xenomi	14	645
Xenopterygii	14	649
Xiphasiidæ	14	650
Xiphias-gladius	26	154
Xiphiidæ	14	647
Xurel	16	254
Xyrauchen cypho	14	494
Yellowtail	29	633
Zanclidæ	14	649
Zaniolepidæ	14	649
Zaprorídæ	14	647
Zeidæ	14	646
Zenopsis ocellatus	9	270
Zenidæ	9	270
Zeoidea	14	648
Zeoidei	14	646
Zeus faber	9	270
Zoarcidæ	14	650
Zoëa	8	264
Zygophiuræ	20	707

Reptiles

Acanthodactylus	25	413
Acanthophis antarctica	8	541
	28	108
Acrocordus javanicus	29	37
Adder	1	130
	28	108
Adigar	23	49
Agama	1	229
Agamidæ	1	230
	12	110
	19	329
Alligator	1	421
lizard	1	422
sinensis	1	421
mississippiensis	1	421
palpebrosus	1	421
sclerops	1	426
terrapin	1	422
Amblycephalus boa	4	133
Amblyrhynchus	17	547
Amyda mutica	27	208
Anaconda	1	602
Anguida	12	710
Anguidæ	1	694
Anolis	2	5
Aromachelys odoratus	27	209
Asp	2	401
	28	109
Aspidonectes spinifer	27	208
Aspis hasselquistii	2	401
Athecæ	6	378
	27	208
Atheris	28	109
Autosauri	16	632
Baptanodon	14	653
Basiliscus americanus	3	310
Basilisk	3	310
Bipes	3	723
Bitis arietans	22	792

Reptiles — contd	Vol.	Page
Black-racer	4	46
Blacksnake	4	46
mountain	22	89
Blindsnake	4	87
Blind-worm	25	101
Blunthead	4	133
Boa	4	134
Boidæ	4	164
Boinæ	4	164
Bongar	4	214
Bothrops jararoca	15	748
Bungarus cœruleus	16	537
Bungarus fasciatus	16	537
Bushmaster	5	74
Caiman	6	147
Caluber vulpinus	11	567
Carawala	5	585
Carphiophiops	9	445
Carphophiops	13	493
amaenus	13	493
vermis	13	493
Cayman	6	155
Cerastes	8	222
	28	109
Chameleon	6	266
	17	547
Charina bottæ	4	134
Cheecha	12	352
Chelone imbricata	2	567
	14	8
	26	714
Chelone mydas	2	567
Chelonia	6	378
	14	144
	26	505
	27	208
Chelonidæ	6	378
	27	208
Chelydidæ	6	378
	27	208
Chelydra serpentina	25	145
Chelydridæ	6	378
	27	208
Chelys matamata	27	208
Chernetidæ cancroides	4	233
Chirotes	6	569
canaliculatus	6	569
Chlamydosaurus kingi	12	110
Chrysemys picta	27	209
Cinosternidæ	6	378
Clemmys guttatus	27	209
Clotho	7	129
	28	109
Cobra de Capello	7	177
Coluber guttatus	7	706
Coluber obsoletus	6	457
Colubridæ	7	333
Confinis	6	457
Copperhead	7	666
	22	89
Corallus	4	134
Cottonmouth	8	85
	19	282
Cotylosauria	14	144
Crocodile	2	567
	8	218
Crocodiles, marsh	18	324
Crocodilia	8	219
	14	144
Crocodilus americanus	8	218
Crocodilus vulgaris	8	218
Crotalidæ	8	243
	22	119
	23	228
	28	108
Crotalinæ	22	119
	23	228
Crotalus	23	229
adamanteus	23	230
cerastes	23	230
confluentus	23	230
cornutus	24	786

Reptiles — cont'd	Vol.	Page
horridus	23	229
Cryptodira	6	378
	27	208
Daboia	8	337
Dabb	8	386
Daboia russelli	23	788
	26	610
Dasypeltis scabra	9	728
Death-adder	8	541
	28	108
Dermatochelydidæ	27	208
Dermochelys	22	692
Desert iguana	9	6
Diadophis punctatus	23	528
Dipsas	9	142
Distira cyanocincta	16	381
Draco volans	9	294
Dragon	9	294
flying	9	294
	11	407
	17	547
Echis carinatus	5	659
Elapinæ	10	48
Emydidæ	27	209
Eryx	4	135
Eumeces	25	76
Eunectes murinus	4	134
Fer-de-lance	11	118
Ferreiro	27	35
Flying dragon	11	407
	17	547
Frill-lizard	12	110
	17	547
Gallapagos tortoise	27	209
Gavial	12	345
Geckos	12	352
	17	547
Ghavial	12	345
Gila monster	12	648
	17	547
Gopherus polyphemus	27	209
Graptemys geographicus	27	209
Ground-worm	13	493
Hatteria	23	480
Hawksbill	2	567
	14	8
	27	208
Heterodon	22	792
platyrhinus	14	312
Hognose	14	312
Homœosaurus	23	480
Hydrophidæ	24	476
	24	477
Hyperodapedon	23	480
Ichthyopsida	14	143
Ichthyopterygia	14	653
Ichthyosauria	14	144
	14	653
Icthyosaurus	14	653
Iguana	14	673
	17	547
Kerril	16	381
King snake	16	537
Kinosternidæ	27	209
Krait	16	537
Jacaré	15	572
Jararaca	15	748
Lacertilia	16	632
	24	320
Lachesinæ	23	228
Lachesis jararaca	15	748
Lachesis lanceolatus	11	118
Lagarto	16	651
Lampropeltis doliatus	14	447
Leatherback	22	692
Lichanura	4	134
Liopeltis vernalis	13	426
Lizard	17	546
collared	7	252
flying	11	408
frill	12	110
	17	547

Reptiles — cont'd	Vol.	Page
leopard	7	252
monitor	19	357
palm	8	386
sail-tailed	24	111
tuatera	14	144
Loggerhead	27	208
Lophurus amboinensis	24	111
Malaclemmys centrata	27	209
Malaclemmys palustris	9	66
Massasauga	22	508
Masticophis flagelliformis	29	256
Matamata	18	422
	27	208
Mattipi	18	446
Megalonia	17	546
Microlabris sternbergi	4	233
Moccasin	8	85
Moloch	17	547
	19	329
horridus	19	329
Monitors	17	547
Monocondylia	23	388
Morelia variegata	2	567
Mosasauria	19	493
Mosasaurinæ	19	493
Mosasaurs	24	476
Mugger	8	218
	18	324
Naja haje	2	401
	28	109
Natrix fasciata	29	37
Nothosaurides	20	458
Nothosaurus	20	458
Ocyophis ater	4	46
Ophidia	20	706
	24	320
	24	509
	28	108
Ophibolus getulus	6	246
Ophisaurus	12	710
Opisthoglypha	20	709
Osceola coccinea	16	440
Osceola doliata	16	440
Parasuchia	14	144
Pelomedusidæ	6	378
Phrynosoma	14	384
Pityophis melanoleucus	22	99
Podocnemis expansa	26	275
Proganosauria	14	144
Proteroglypha	22	679
Proterosauria	14	144
Pseudemys rubriventris	27	209
Pterosauria	14	144
Ptychozoon homalocephalon	11	408
Puff-adder	22	792
	28	108
Python	23	40
diamond	5	659
malurus	23	49
regia	23	50
reticulatus	23	49
royal	23	50
spilotes	5	659
Pythoninæ	4	164
	22	49
Quadrivittatus	6	457
Racer	23	107
black	4	46
	23	107
blue	4	46
	23	107
Raj-samep	16	537
Rattlesnakes	22	119
	23	228
horned	23	230
prairie	22	508
	23	230
water	23	230
species of	23	229
Reptiles	23	388

Reptiles — cont'd	Vol.	Page
Reptiles, brain and sense-organs	23	389
circulation	23	389
classification of	23	390
comparison with birds	23	388
digestive organs	23	389
distribution	23	390
eggs of	9	724
skeleton	23	388
skull	23	389
viscera	23	390
Reptilia	23	388
Rhynchocephala	23	480
	27	119
Rhynchosaurus	23	480
Rhyncocephalia	14	144
River jack	28	108
Sail	24	111
Salvator	24	215
Sauria	24	320
Sauropoda	24	320
Sauropsida	14	143
	23	388
	24	320
Sauropterygia	14	144
Sceloporus	24	359
undulatus	14	673
	24	359
	26	132
Scincus	25	76
Sea-lizard	17	547
Seasnake	29	37
Sepedon hæmachates	23	528
Serpent	24	599
classification	24	600
phylogeny	24	600
sense-organs	24	600
structure	24	599
colubrine	22	99
non-poisonous	24	590
Shastasaurus	14	653
Sidewinder	24	786
Sistrurus	23	229
catenatus	23	229
miliarius	23	229
Skink	17	547
	25	76
Slow-worm	25	101
Snakes	24	599
Snake, black	4	46
bull	22	99
carpet	2	567
	5	659
	28	108
chain	6	246
chicken	6	457
coach-whip	7	142
coral	7	678
	8	364
corn	7	706
cylinder	8	364
diamond	9	68
dwarf	9	445
egg-eating	9	728
fetch	23	50
fox	11	567
frog	18	446
garter	12	300
glass	12	710
	17	547
gopher	13	61
grass	12	300
	29	37
green	13	426
ground	13	493
hooded	23	528
house	14	447
joint	12	710
	17	547
king	16	440

Reptiles — cont'd	Vol.	Page
Kongo	16	515
milk	14	447
moccasin	19	282
pilot	22	89
pine	22	99
red-bellied	23	277
ring	23	528
rock	23	49
	23	50
sea	24	477
tiger	26	623
wart	29	37
water	29	37
Solenoglypha	23	228
	28	108
Sphenodon	23	480
punctatum	27	119
Spilotes corais	13	61
Spine-foot	25	413
Storeria occipitomaculata	23	277
Surucucu	5	74
Tartaraga	26	275
Tiju	26	326
Terrapene carolina	27	209
Terrapin	26	446
	27	208
diamondback	9	66
elephant	26	446
red bellied	27	209
Testudinidæ	6	378
	27	209
Testudinata	6	378
	26	455
	27	208
Testudo	27	209
abingdoni	16	700
ephippium	16	700
græca	25	209
sumeiri	16	700
Thalassochelys caretta	27	208
Thalattasauria	14	144
Thecophora	26	505
Therapsida	14	144
Theromorpha	14	144
Thorictis dracæna	9	294
Ticpolonga	26	610
Tiger snake	26	623
Tiguexin	26	326
Toad, horned	14	384
Tortoise	1	422
	4	368
	17	228
	27	208
box	21	209
European land	27	209
gigantic land	16	700
gopher	13	61
land	16	700
	21	209
mud	19	548
speckled	21	209
Trimeresurus atrox	15	748
Trimeresurus jararaca	15	748
Trionychidæ	27	208
Trionycholdea	6	378
Trunk-back	17	201
Tuatara	27	119
Tupinambis teguexin	26	326
Turtle	1	422
	2	567
	13	61
	27	208
box	4	368
diamond back	27	209
gopher	27	209
leather	17	201
	27	208
map	27	209
mud	19	548
mush	27	209
painted	27	209

Reptiles — cont'd	Vol.	Page
river	26	275
sea	19	49
snapping	25	145
Varanidæ	17	547
varanus	27	687
Varanus niloticus	19	357
Viper	28	108
African	22	792
horned	28	108
pit	22	119
Russell's	23	788
	28	108
Vipera aspis	2	401
Vipera elegans	28	108
Viperidæ	23	228
	28	108
Viperina	28	108
Whip-snake	29	256
Xerobates polyphemus	13	61
Zamenis constrictor	4	46
Zamenis hippocrepis	14	416
Zamenis obsoletus	22	89

Biographies

	Vol.	Page
Agassiz, Alexander	1	231
Agassiz, Louis	1	231
	1	705
	14	650
Aldrovandi, Ulisse	1	356
Allen, Joel Asaph	1	415
Anthony, John Gould	2	16
Artedi, Peter	2	347
	14	650
Asbjörnsen, Peter Kristen	2	377
Audebert, Jean Baptiste	2	535
Audouin, Jean Victor	2	536
Audubon, John James Fougère	2	537
Bachman, John	3	17
Baer, Karl Ernst von	3	36
Baird, Spencer Fullerton	3	57
Baker, Charles Fuller	3	59
Baker, Frank	3	59
Baker, Frank Collins	3	59
Ball, Elmer Darwin	3	92
Bartram, William	3	298
Baskett, James Newton	3	313
Bean, Tarleton Hoffman	3	377
Bechstein, Johann Matthäus	3	402
Beddard, Frank Evers	3	412
Beebe, Charles William	3	422
Bell, Thomas	3	477
Belon, Pierre	3	494
Bendire, Charles Emil	3	502
Beutenmüller, William	3	597
Bigelow, Robert Payne	3	697
Binney, Amos	3	716
Birge, Edward Asahel	4	3
Blainville, Henri Marie Ducrotay de	4	53
Blanchard, Emile	4	59
Blatchley, Willis Stanley	4	71
Bloch, Marcus Eliezer	4	91
Bonnet, Charles	4	220
Brehm, Christian Ludwig	4	462
Brewster, William	4	486
Brooks, William Keith	4	597
Broussonet, Pierre Marie Auguste	4	601
Brown, Heinrich Georg	4	579
Brues, Charles Thomas	4	628
Bruner, Lawrence	4	633
Buckland, Francis Trevelyan	4	667
Buffon, George Louis Leclerc	4	696
Burmeister, Hermann	5	53

Biographies — cont'd	Vol.	Page
Burroughs, John	5	66
Bush, Katherine Jeanette	5	72
Bütschli, Otto	5	83
Cabanis, Jean Louis	5	114
Calkins, Gary Nathan	5	224
Carus, Julius Victor	5	688
Cassin, John	5	711
Castle, W. E.	6	7
Catesby, Mark	6	50
Chamberlain, Montague	6	262
Chambliss, Charles Edward	6	266
Chapman, Frank Michler	6	297
	15	162
Chittenden, Frank Hurlbut	6	571
Clapp, Cornelia Maria	7	32
Clark, Alonzo Howard	7	39
Clark, Hubert Lyman	7	42
Clarke, Samuel Fessenden	7	49
Clarke, William Eagle	7	49
Claus, Karl Friedrich Wilhelm	7	63
Cockerell, Theodore Dru Alison	7	186
Collins, Joseph William	7	288
Comstock, John Henry	7	454
Conklin, Edwin Grant	7	523
Cook, Albert John	7	620
Cope, Edward Drinker	7	645
Cornish, Charles John	7	714
Cory, Charles Barney	8	30
Coues, Elliott	8	91
Crampton, Henry Edward	8	152
Cuvier, Georges Chrétien L. D.	1	630
	1	705
	8	345
Dean, Bashford	8	537
Ditmars, Raymond Lee	9	196
Dixon, Charles	9	211
Dohrn, Anton	9	233
Dresser, Henry Eccles	9	331
Drummond, James	9	353
Drouet, Henri	9	341
Drury, Dru	9	355
Dujardin, Felix	9	390
Duméril, André Marie Constant	9	398
Eastman, Charles Rochester	9	513
Edward, Thomas	9	706
Ehlers, Ernest Heinrich	10	24
Eigenmann, Carl H.	10	27
Elliot, Daniel Giraud	10	254
Ellis, John	10	256
Emerson, George Barrell	10	286
Emerton, James H.	10	291
Erxleben, Johann Christian	10	487
Escherich, Karl Leopold	10	495
Eschricht, Daniel Frederik	10	495
Eschscholtz, Johann Friedrich	10	495
Evermann, Barton Warren	10	603
Ewart, James Cossar	10	614
Faber, Frederik	10	690
Fabre, Jean Henri	10	694
	18	184
Fabricius, Johann Christian	10	696
Falconer, Hugh	10	726
Fernald, Charles Henry	11	128
Finn, Frank	11	226
Fisher, Albert Kendrick	11	280
Fleming, John	11	344

Biographies — cont'd	Vol.	Page
Flower, Sir William Henry	11	390
Forbes, Edward	11	460
Forbes Stephen Alfred	11	461
Fowler, William Warde	11	562
Gadow, Hans Friedrich	12	217
Garman, Harrison	12	294
Garman, Samuel	12	294
Geoffroy Saint-Hilaire, Etienne	12	407
Geoffroy Saint-Hilaire, Isidore	12	407
Gesner, Konrad von	12	627
Gilbert, Charles Henry	12	648
Girard, Charles	12	663
Glaser, Otto C(harles)	12	682
Goode, G. Brown	24	191
Gould, Augustus Addison	13	83
Gould, John	13	84
Green, Seth	13	423
Grinnell, George Bird	13	479
Gulick, John Thomas	13	543
Günther, Albert Charles Lewis Gothilf	13	573
	14	650
Haeckel, Ernst	13	611
Hagenbeck, Karl	13	614
Haldeman, Samuel Stehman	13	631
Hall, Robert	13	643
Harris, Thaddeus William	13	724
Hickson, Sydney John	14	169
Holbrook, John Edwards	14	315
Holder, Charles Frederick	14	315
Holland, William J.	14	317
Hornaday, William Temple	14	383
Horsefield, Thomas	14	415
Howard, Leland Ossian	14	453
Huber, François	14	465
Hudson, W. H.	14	470
Huebner, Ernest	11	355
Humboldt, Friedrich Heinrich Alexander	7	481
	14	489
Huxley, Thomas	14	143
	14	532
Ingersoll, Ernest	15	129
Jennings, Herbert Spencer	16	15
Jesse, Edward	16	35
Jordan, David Starr	16	208
Kellogg, Vernon Lyman	16	342
Kingsley, John Sterling	16	447
Kneeland, Samuel	16	478
Kofoid, Charles Atwood	16	507
Kovalevsky, Alexander	16	536
Lacaze-Duthiers, Henri de	16	626
Lacépède, Bernard Germain Etienne de la Ville, Count de	16	632
Lacy, William Albert	17	589
La Peyrouse, Philippe Picot de	16	579
Landois, Hermann	16	702
Lang, Arnold	16	716
Lankester, Sir Edwin Ray	16	734
Latham, John	16	763
Latreille, Pierre André	17	97
Laurence, George Newbold	17	145
Lea, Isaac	17	169
Leach, William Elford	17	170
Le Conte, John Eaton	17	163
Le Conte, John Lawrence	17	163

Biographies — cont'd	Vol.	Page
Leidy, Joseph	17	268
Linsley, James Harvey	17	466
Lucas, Frederic Augustus	17	714
Lydekker, Richard	17	772
Lyman, Theodore	17	774
Mark, Edward Laurens	18	298
Marlatt, Charles Lester	18	302
Mayer, Alfred Goldsborough	18	464
Maynard, Charles Johnson	18	466
McClung, Clarence Erwin	18	25
McCook, Henry Christopher	18	28
McIlwraith, Thomas	18	62
Meyer, Adolf Bernhard	19	1
Milne-Edwards, Henri	19	131
Mitsukuri, Kakachi	19	273
Mivart, Saint George Jackson	19	274
Morgan, Conwy Lloyd	19	450
Morgan, Thomas Kunt	19	482
Morse, Edward Sylvester	19	482
Müller, Fritz	15	162
	19	557
	26	443
Müller, Johann Friedrich Theodor	19	557
Naumann, Johann Friedrich	19	782
Newton, Alfred	20	288
Nicholson, Henry Alleyne	20	319
Nutting, Charles Cleveland	20	523
Ormerod, Eleanor Anne	21	1
Ortmann, Arnold Edward	21	13
Osbon, Herbert	21	17
Osborn, Henry Fairfield	21	16
Osten-Sacken, Baron Charles Robert	21	25
Packard, Alpheus Spring	21	90
Palisot de Beauvois, Ambroise Marie François Joseph	21	206
Pallas, Peter Simon	21	209
Patch, Edith Marion	21	379
Patten, William	21	407
Parker, George Howard	21	327
Pennant, Thomas	21	517
Perley, Moses Henry	21	601
Perrier, (Jean Octave) Edmond	21	605
Pilsbry, Henry Augustus	22	90
Poey, Felipe	22	279
Poulton, Edward Bagnall	22	460
Pourtalès, Louis François de	22	474
Quatrefages De Breau, Jean Louis Armand de	23	70
Rathbun, Richard	23	224
Ray, John	23	238
Reighard, Jacob Ellsworth	23	332
Richard, Owen	1	630
Ridgway, Robert	23	512
Riley, Charles Valentine	15	163
	23	523
Ritter, William Emerson	23	544
Ross, Alexander Milton	23	703
Say, Thomas	24	343
Schuchert, Charles	24	404
Scudder, Samuel Hubbard	24	457
Semper, Karl	24	556

Biographies — cont'd	Vol.	Page
Seton-Thompson, Ernest	24	607
Seton, Ernest Thompson	24	607
Siebold, Karl Theodor Ernst von	24	789
Smith, John Bernhardt	25	123
Starks, Edwin Chapin	11	268
Steenstrup, Johann Iapetus Smith	25	608
Stejneger, Leonhard	25	613
Steno, Nicholas	25	616
Stiles, Charles Wardell	25	647
Stone, Witmer	25	679
Storer, David Humphreys	25	697
Swammerdam, Jan	15	162
	26	167
Townsend, Charles Haskins	26	727
Treadwell, Aaron Lewis	27	21
Treat, Mary Lea Adelia Davis Allen	27	24
Trouessart, Edouard Louis	27	96
Tryon, George Washington	27	116
Van der Hoeven, Jan	27	668
Wallace, Alfred Russel	20	23
	28	235
Ward, Henry Augustus	28	698
Weed, Clarence Moore	29	155
Weismann, August	15	162
	29	173
Westwood, John Obadiah	29	228
White, Gilbert	29	265
Whitman, Charles Otis	29	280
Willughby, Francis	29	352
Wilson, Alexander	29	356
Wilson, Edmund Beecher	29	357
Wood, John George	29	473
Wortman, J. L.	14	398
Wray, John	23	238
Wright, Mabel Osgood	29	569
Yarrell, William	29	615
Yates, Lorenzo Gordin	29	616

89094370822
B89094370822A

89094370822
b89094370822a